

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION IX

# 75 Hawthorne Street San Francisco, CA 94105-3901

OFFICE OF THE REGIONAL ADMINISTRATOR

By email only

Oliver Whaley Executive Director, Navajo Nation Division of Natural Resources Navajo Nation Environmental Protection Agency P. O. Box 339 Window Rock, Arizona 865515

Subject: Navajo Nation 2015 Surface Water Quality Standards and 2015 Triennial Review

### Dear Director Whaley:

I am pleased to partially approve the new and revised Subject water quality standards consistent with the requirements of section 303(c) of the Clean Water Act (CWA) and 40 C.F.R. Part 131. Supported by robust science and stakeholder engagement, the approved standards include updates to designated uses, definitions, numeric nutrient criteria, and expanded antidegradation and site-specific standard policies. I am also disapproving certain water quality standards as described below.

Incorporated as part of this letter are Enclosure A (Table of Approved Standards) and Enclosure B (EPA's detailed analysis of the standards and rationale for approval and disapproval). The approved standards take effect immediately for CWA purposes.

#### Approved New and/or Revised Standards

EPA approves the new and revised water quality standards in Enclosure A. The submitted Provisions also included revisions to formatting, definitions, and errors that are non-substantive and are neither new nor revised water quality standards and are therefore not subject to EPA review and approval.

#### Disapproved New and/or Revised Standards

EPA is disapproving the following submitted Provisions as they are not consistent with the CWA and implementing regulations: 1) acute and chronic cadmium criteria for aquatic and wildlife warm water; and 2) bis(2-ethylhexyl)phthalate criteria for primary human contact. With this disapproval, pursuant to 40 C.F.R. § 131.21(e), Navajo Nation's previously approved criterion for these provisions remain the applicable water quality standards for CWA purposes.

#### Request for Additional Information

EPA is not acting on the submitted provision to remove the suspended solids criteria for aquatic life uses in non-flowing waters. Instead, EPA is offering NNEPA the opportunity to submit additional information that provides a scientific basis for this removal or establishes how, in the absence of the criteria, NN WQS can protect the designated uses from impacts from suspended solids. EPA will

continue to work closely with Navajo Nation to meet your water quality management goals related to this provision.

I look forward to our continued partnership to protect and enhance Navajo Nation's water quality and advance human health and wildlife protection. Please call me if you would like to discuss further, or your staff may contact Tina Yin, Manager of the Standards and Assessment Office at (415) 972-3579, with specific questions.

Sincerely,

BOSTERUD Date: 2020,000 JOHN DOIGHSIIN sidued by Sidued

John W. Busterud Regional Administrator Enclosures

cc: Ronnie Ben, Navajo Nation EPA

# **Enclosure A**

**Table of Approved Standards** 

| § 104 Definitions                          | Summary   |
|--|---|
| Assimilative Capacity                      | Added new definition "the difference between the baseline water quality concentration of a pollutant and the most stringent applicable water quality criterion for that pollutant."   |
| Chronic Standard                           | Updates definition to "a standard that applies to the geometric mean of the analytical results of the last four samples taken at least 24 hours apart arithmetic mean of samples collected during four consecutive days; chronic standards shall not be exceeded more than once every three years."   |
| Exceptional Waters of the<br>Navajo Nation | Changes Unique Waters to "Exceptional Waters of the Navajo Nation" defined as: "ground or surface waters that have been determined to be of exceptional cultural, ecological and/or recreational significance due to the nature of their flora, fauna, water quality, aesthetic value, or wilderness characteristics."  |
| Ephemeral Surface Water                    | Updates the definition to "a flowing or non-flowing surface water that has a stream bed, lake bed, or pond bed that is at all times above the water table and water above the bed is only present in direct response to precipitation."   |
| Hardness                                   | Updates the definition to "the sum of the calcium and magnesium concentrations, expressed as calcium carbonate (CaCO3), in milligrams per liter (mg/L) and may be calculated using the following formula: Hardness (as CaCO3) = $2.5 \times \text{Ca2} + (\text{mg/L}) + 4.1 \times \text{Mg2} + (\text{mg/L})$ . Hardness analysis is done from a dissolved water sample." |
| Intermittent Surface Water                 | Updates the definition to "a flowing or non-flowing surface water with water above the stream bed, pond bed, or lake bed only at certain times of the year, receiving water from springs or surface sources; also, a watercourse that does not flow continuously, when water losses from evaporation or seepage exceed available stream flow."                              |
| Pollution                                  | Updates the definition to "any man-human-made or man human-induced alteration of the chemical, physical, biological, or radiological integrity of waters of the Navajo Nation."   |
| Unique Waters                              | Remove and replace with Exceptional Waters of the Navajo Nation   |
| § 201 Antidegradation Policy               | Summary   |
| Subsection D                               | Removes definition of Unique Waters, replaced by subsection I   |
| Subsection F                               | Updates degradation definition to specify by pollutant  |
| Subsection G                               | Creates and define Tier 1 status and protection   |
| Subsection H                               | Creates and define Tier 2 status and protection   |

| Subsection I                                     | Creates and defines Tier 3 status and protection under Exceptional Waters of the Navajo Nation   |  |
|--|--|--|
| § 202 Antidegradation<br>Implementation          | Summary  |  |
|  | Add new section regarding antidegradation implementation procedures; new to WQS  |  |
| § 207 Numeric SWQS                               | Summary  |  |
| Subsection D                                     | Updates the Salinity standards to conform with the 2014 Colorado River Basin Salinity Control Forum criteria.  |  |
| Subsection I                                     | Adds mercury and methylmercury aquatic life chronic exposure standards for a list of 25 plus waterbodies.  |  |
| § 209 Exceptional Waters of<br>the Navajo Nation | Summary  |  |
|  | This new section changes previously termed unique waters to "Exceptional Waters of Navajo Nation" (EWNN). Subsections then provide nomination and decision conditions to recognize and designate a waterbody as an EWNN. |  |
| § 212 Site Specific Standards                    | Summary  |  |
|  | This section and subsections establish the capacity for site specific standard and sets forward types of processes and conditions required to calculate these kinds of criteria.   |  |
| § 213 Natural Background                         | Summary  |  |
|  | This section establishes conditions in which natural background can be considered for assessment purposes.   |  |
| <b>Table 206.1</b>                               | Summary  |  |
| Designated Uses                                  | Updates to universal designated uses ephemeral reaches and perennial and/or intermittent reaches of all named waters of Navajo Nation. Please see the below tables:  |  |

| Existing Designated Uses Removed                |               |                   |   |  |
|---|---------------|-------------------|---|--|
| Waterbody Cataloging Unit Uses Removed          |               |                   |   |  |
| Nazlini Wash, ephemeral reaches                 | Chinle        | PrHC,<br>AgWS, FC | 2 |  |
| Arroyo Chico and tributaries, ephemeral reaches | Arroyo Chico  | PrHC, FC          | 2 |  |
| Blanco Canyon, ephemeral reaches                | Blanco Canyon | PrHC, FC          | 2 |  |

| Existing Designated Uses Removed            |                 |                 |                                  |  |
|---|-----------------|-----------------|----------------------------------|--|
| Waterbody                                   | Cataloging Unit | Uses<br>Removed | 40 C.F.R.<br>131.10(g)<br>factor |  |
| Largo Canyon, ephemeral reaches             | Blanco Canyon   | PrHC, FC        | 2                                |  |
| Canyon Diablo, ephemeral reaches            | Canyon Diablo   | PrHC, FC        | 2                                |  |
| Padre Canyon, ephemeral reaches             | Canyon Diablo   | PrHC, FC        | 2                                |  |
| San Francisco Wash, ephemeral reaches       | Canyon Diablo   | PrHC, FC        | 2                                |  |
| Yellow Jacket Canyon, ephemeral reaches     | Canyon Diablo   | PrHC, FC        | 2                                |  |
| Youngs Canyon, ephemeral reaches            | Canyon Diablo   | PrHC, FC        | 2                                |  |
| Brimhall Wash, ephemeral reaches            | Chaco           | PrHC, FC        | 2                                |  |
| Captain Tom Wash, ephemeral reaches         | Chaco           | PrHC, FC        | 2                                |  |
| Chaco River/Chaco Wash, ephemeral reaches   | Chaco           | PrHC, FC        | 2                                |  |
| Chinde Wash, , ephemeral reaches            | Chaco           | PrHC, FC        | 2                                |  |
| Cottonwood Arroyo, ephemeral reaches        | Chaco           | PrHC, FC        | 2                                |  |
| Coyote Wash, ephemeral reaches              | Chaco           | PrHC, FC        | 2                                |  |
| De Na Zin Wash, ephemeral reaches           | Chaco           | PrHC, FC        | 2                                |  |
| Dead Man's Wash, ephemeral reaches          | Chaco           | PrHC, FC        | 2                                |  |
| Hunter Wash, ephemeral reaches              | Chaco           | PrHC, FC        | 2                                |  |
| Indian Creek, ephemeral reaches             | Chaco           | PrHC, FC        | 2                                |  |
| Red Willow Wash, ephemeral reaches          | Chaco           | PrHC, FC        | 2                                |  |
| Sanostee Wash, ephemeral reaches            | Chaco           | PrHC, FC        | 2                                |  |
| Sheep Springs Wash, ephemeral reaches       | Chaco           | PrHC, FC        | 2                                |  |
| Tocito Wash, ephemeral reaches              | Chaco           | PrHC, FC        | 2                                |  |
| Balakai Wash, ephemeral reaches             | Chinle          | PrHC, FC        | 2                                |  |
| Black Mountain Wash, ephemeral reaches      | Chinle          | PrHC, FC        | 2                                |  |
| Canyon de Chelly Wash, ephemeral reaches    | Chinle          | PrHC, FC        | 2                                |  |
| Canyon del Muerto Wash, ephemeral reaches   | Chinle          | PrHC, FC        | 2                                |  |
| Chinle Creek/Chinle Wash, ephemeral reaches | Chinle          | PrHC, FC        | 2                                |  |
| Cottonwood Wash, ephemeral reaches          | Chinle          | PrHC, FC        | 2                                |  |
| Coyote Wash, ephemeral reaches              | Chinle          | PrHC, FC        | 2                                |  |
| Crystal Creek, ephemeral reaches            | Chinle          | PrHC, FC        | 2                                |  |
| Laguna Creek, ephemeral reaches             | Chinle          | PrHC, FC        | 2                                |  |
| Little Whiskey Creek, ephemeral reaches     | Chinle          | PrHC, FC        | 2                                |  |
| Lukachukai Wash, ephemeral reaches          | Chinle          | PrHC, FC        | 2                                |  |
| McElmo Creek, ephemeral reaches             | Chinle          | PrHC, FC        | 2                                |  |
| Montezuma Creek, ephemeral reaches          | Chinle          | PrHC, FC        | 2                                |  |
| Palisade Creek, ephemeral reaches           | Chinle          | PrHC, FC        | 2                                |  |
| Tohtso Creek, ephemeral reaches             | Chinle          | PrHC, FC        | 2                                |  |
| Tsaile Creek, ephemeral reaches             | Chinle          | PrHC, FC        | 2                                |  |
| Tyende Creek, ephemeral reaches             | Chinle          | PrHC, FC        | 2                                |  |
| Walker Creek, ephemeral reaches             | Chinle          | PrHC, FC        | 2                                |  |
| Wheatfields Creek, ephemeral reaches        | Chinle          | PrHC, FC        | 2                                |  |
| Whiskey Creek, ephemeral reaches            | Chinle          | PrHC, FC        | 2                                |  |
| Corn Creek Wash, ephemeral reaches          | Corn-Oraibi     | PrHC, FC        | 2                                |  |
| Oraibi Wash, ephemeral reaches              | Corn-Oraibi     | PrHC, FC        | 2                                |  |
| Cottonwood Wash, ephemeral reaches          | Cottonwood Wash | PrHC, FC        | 2                                |  |

| Existing Designated Uses Removed                               |                                  |                  |                                  |
|--|----------------------------------|------------------|----------------------------------|
| Waterbody  | Cataloging Unit                  | Uses<br>Removed  | 40 C.F.R.<br>131.10(g)<br>factor |
| Kinlichee Creek, ephemeral reaches                             | Cottonwood Wash                  | PrHC, FC         | 2                                |
| Pueblo Colorado Wash, ephemeral reaches                        | Cottonwood Wash                  | PrHC, FC         | 2                                |
| Dinnebito Wash, ephemeral reaches                              | Dinnebito Wash                   | PrHC, FC         | 2                                |
| East Fork Dinnebito Wash, ephemeral reaches                    | Dinnebito Wash                   | PrHC, FC         | 2                                |
| Jeddito Wash, ephemeral reaches                                | Jeddito Wash                     | PrHC, FC         | 2                                |
| Leroux Wash, ephemeral reaches                                 | Leroux Wash                      | PrHC, FC         | 2                                |
| Shinumo Wash, ephemeral reaches                                | Lower Colorado- Marble<br>Canyon | PrHC, FC         | 2                                |
| Tanner Wash, ephemeral reaches                                 | Lower Colorado- Marble<br>Canyon | PrHC, FC         | 2                                |
| Tatahatso Wash, ephemeral reaches                              | Lower Colorado- Marble<br>Canyon | PrHC, FC         | 2                                |
| Tiger Wash, ephemeral reaches                                  | Lower Colorado- Marble<br>Canyon | PrHC, FC         | 2                                |
| Antelope Creek, ephemeral reaches                              | Lower Lake Powell                | PrHC, FC         | 2                                |
| Aztec Creek, ephemeral reaches                                 | Lower Lake Powell                | PrHC, FC         | 2                                |
| Kaibito Creek, ephemeral reaches                               | Lower Lake Powell                | PrHC, FC         | 2                                |
| Navajo Creek, ephemeral reaches                                | Lower Lake Powell                | PrHC, FC         | 2                                |
| Cedar Wash, ephemeral reaches                                  | Lower Little Colorado            | PrHC, FC         | 2                                |
| Deadman Wash, ephemeral reaches                                | Lower Little Colorado            | PrHC, FC         | 2                                |
| Lee Canyon, ephemeral reaches                                  | Lower Little Colorado            | PrHC, FC         | 2                                |
| Little Colorado River, ephemeral reaches                       | Lower Little Colorado            | Dom. PrHC,<br>FC | 2                                |
| Tappan Wash, ephemeral reaches                                 | Lower Little Colorado            | PrHC, FC         | 2                                |
| Desert Creek, ephemeral reaches                                | Lower San Juan Four Corners      | PrHC, FC         | 2                                |
| Ephemeral tributaries to the San Juan River (except as listed) | Lower San Juan Four Corners      | PrHC, FC         | 2                                |
| Gothic Creek, ephemeral reaches                                | Lower San Juan Four Corners      | PrHC, FC         | 2                                |
| McCraken Canyon, ephemeral reaches                             | Lower San Juan Four Corners      | PrHC, FC         | 2                                |
| Teec Nos Pos Wash, ephemeral reaches                           | Lower San Juan Four Corners      | PrHC, FC         | 2                                |
| Toh Dahstini Wash ephemeral reaches                            | Lower San Juan Four Corners      | PrHC, FC         | 2                                |
| Gypsum Creek, , ephemeral reaches                              | Lower San Juan River             | PrHC, FC         | 2                                |
| Nokai Canyon, ephemeral reaches                                | Lower San Juan River             | PrHC, FC         | 2                                |
| Oljeto Wash, ephemeral reaches                                 | Lower San Juan River             | PrHC, FC         | 2                                |
| Mancos River, ephemeral reaches                                | Mancos River                     | PrHC, FC         | 2                                |
| Baker Arroyo, ephemeral reaches                                | Middle San Juan River            | PrHC, FC         | 2                                |
| Cove Wash, ephemeral reaches                                   | Middle San Juan River            | PrHC, FC         | 2                                |
| Eagle Nest Arroyo, ephemeral reaches                           | Middle San Juan River            | PrHC, FC         | 2                                |
| Ojo Amarillo, ephemeral reaches                                | Middle San Juan River            | PrHC, FC         | 2                                |
| Pine Wash, ephemeral reaches                                   | Middle San Juan River            | PrHC, FC         | 2                                |
| Red Wash, ephemeral reaches                                    | Middle San Juan River            | PrHC, FC         | 2                                |
| Salt Creek Wash, ephemeral reaches                             | Middle San Juan River            | PrHC, FC         | 2                                |
| Standing Redrock Creek, ephemeral reaches                      | Middle San Juan River            | PrHC, FC         | 2                                |

| Existing Designated Uses Removed              |                             |                  |                                  |  |
|---|-----------------------------|------------------|----------------------------------|--|
| Waterbody                                     | Cataloging Unit             | Uses<br>Removed  | 40 C.F.R.<br>131.10(g)<br>factor |  |
| Begashibito Wash, ephemeral reaches           | Moenkopi Wash               | PrHC, FC         | 2                                |  |
| Hamblin Wash, ephemeral reaches               | Moenkopi Wash               | PrHC, FC         | 2                                |  |
| Moenkopi Wash, ephemeral reaches              | Moenkopi Wash               | PrHC, FC         | 2                                |  |
| Shonto Wash, ephemeral reaches                | Moenkopi Wash               | PrHC, FC         | 2                                |  |
| Unnamed ephemeral tributaries and playas      | North Plains                | PrHC, FC         | 2                                |  |
| Polacca Wash, ephemeral reaches               | Polacca Wash                | PrHC, FC         | 2                                |  |
| Rio Puerco and tributaries, ephemeral reaches | Rio Puerco                  | PrHC, FC         | 2                                |  |
| Alamo Creek, ephemeral reaches                | Rio Salado                  | PrHC, FC         | 2                                |  |
| Rio Salado and tributaries, ephemeral reaches | Rio Salado                  | PrHC, FC         | 2                                |  |
| Bluewater Creek, ephemeral reaches            | Rio San Jose                | PrHC, FC         | 2                                |  |
| Rio San Jose ephemeral tributaries            | Rio San Jose                | PrHC, FC         | 2                                |  |
| Asaayi Creek - East Fork, ephemeral reaches   | Upper Puerco                | PrHC, FC         | 2                                |  |
| Asaayi Creek, ephemeral reaches               | Upper Puerco                | PrHC, FC         | 2                                |  |
| Black Creek, ephemeral reaches                | Upper Puerco                | PrHC, FC         | 2                                |  |
| Bonito Creek, ephemeral reaches               | Upper Puerco                | PrHC, FC         | 2                                |  |
| Tohdildonih Wash, ephemeral reaches           | Upper Puerco                | PrHC, FC         | 2                                |  |
| Puerco River, ephemeral reaches               | Upper Puerco & Lower Puerco | Dom, PrHC,<br>FC | 2                                |  |
| Gallegos Canyon, ephemeral reaches            | Upper San Juan River        | PrHC, FC         | 2                                |  |
| Rio Pescado, ephemeral reaches                | Zuni River                  | PrHC, FC         | 2                                |  |
| Zuni River tributaries, ephemeral reaches     | Zuni River                  | PrHC, FC         | 2                                |  |

| New Uses Added to Waterbodies                           |                 |             |  |
|---|-----------------|-------------|--|
| Waterbody   | Cataloging Unit | New Uses    |  |
| Arroyo Chico and tributaries perennial and intermittent | Arroyo Chico    | PrHC, AgWS  |  |
| reaches   |                 |             |  |
| Torreon Wash, perennial and intermittent reaches        | Arroyo Chico    | PrHC, AgWS  |  |
| Blanco Canyon, perennial and intermittent reaches       | Blanco Canyon   | PrHC, AgWS  |  |
| Largo Canyon, perennial and intermittent reaches        | Blanco Canyon   | PrHC, AgWS  |  |
| Canyon Diablo, perennial and intermittent reaches       | Canyon Diablo   | PrHC, AgWS  |  |
| Padre Canyon, perennial and intermittent reaches        | Canyon Diablo   | PrHC, AgWS  |  |
| Yellow Jacket Canyon, perennial and intermittent        | Canyon Diablo   | PrHC, AgWS  |  |
| reaches   |                 |             |  |
| Youngs Canyon, perennial and intermittent reaches       | Canyon Diablo   | PrHC, AgWS  |  |
| Brimhall Wash, perennial and intermittent reaches       | Chaco           | PrHC,       |  |
| Chinde Wash, perennial and intermittent reaches         | Chaco           | PrHC, AgWS  |  |
| Cottonwood Arroyo, perennial and intermittent reaches   | Chaco           | PrHC, AgWS  |  |
| Coyote Wash, perennial and intermittent reaches         | Chaco           | PrHC, ScHC, |  |
|   |                 | AgWS        |  |
| De Na Zin Wash, perennial and intermittent reaches      | Chaco           | PrHC, AgWS  |  |
| Dead Man's Wash, perennial and intermittent reaches     | Chaco           | PrHC, AgWS  |  |
| Hunter Wash, perennial and intermittent reaches         | Chaco           | PrHC, ScHC, |  |
|   |                 | AgWS        |  |

| New Uses Added to Waterbodies                                |                                  |                     |  |
|--|----------------------------------|---------------------|--|
| Waterbody  | Cataloging Unit                  | New Uses            |  |
| Indian Creek, perennial and intermittent reaches             | Chaco                            | PrHC, ScHC,<br>AgWS |  |
| Red Willow Wash, perennial and intermittent reaches          | Chaco                            | PrHC,               |  |
| Sheep Springs Wash, perennial and intermittent reaches       | Chaco                            | PrHC, ScHC,<br>AgWS |  |
| Tocito Wash, perennial and intermittent reaches              | Chaco                            | PrHC, AgWS          |  |
| Balakai Wash, perennial and intermittent reaches             | Chinle                           | PrHC, AgWS          |  |
| Black Mountain Wash, perennial and intermittent reaches      | Chinle                           | PrHC, AgWS          |  |
| Cottonwood Wash, perennial and intermittent reaches          | Chinle                           | PrHC, AgWS          |  |
| Coyote Wash, perennial and intermittent reaches              | Chinle                           | PrHC, AgWS          |  |
| Lukachukai Wash, reaches                                     | Chinle                           | PrHC,               |  |
| Nazlini Wash, perennial and intermittent reaches             | Chinle                           | PrHC,               |  |
| Tyende Creek, perennial and intermittent reaches             | Chinle                           | PrHC, AgWS          |  |
| Corn Creek Wash, perennial and intermittent reaches          | Corn-Oraibi                      | PrHC, AgWS          |  |
| Oraibi Wash, perennial and intermittent reaches              | Corn-Oraibi                      | PrHC, AgWS          |  |
| Cottonwood Wash, perennial and intermittent reaches          | Cottonwood Wash                  | PrHC, AgWS          |  |
| Leroux Wash, perennial and intermittent reaches              | Cottonwood Wash                  | PrHC, AgWS          |  |
| Dinnebito Wash, perennial and intermittent reaches           | Dinnebito Wash                   | PrHC, AgWS          |  |
| East Fork Dinnebito Wash, perennial and intermittent reaches | Dinnebito Wash                   | PrHC, AgWS          |  |
| Jeddito Wash, perennial and intermittent reaches             | Jeddito Wash                     | PrHC, AgWS          |  |
| Shinumo Wash, perennial and intermittent reaches             | Lower Colorado- Marble<br>Canyon | PrHC, AgWS          |  |
| Tanner Wash, perennial and intermittent reaches              | Lower Colorado- Marble<br>Canyon | PrHC, AgWS          |  |
| Tatahatso Wash, perennial and intermittent reaches           | Lower Colorado- Marble<br>Canyon | PrHC, AgWS          |  |
| Tiger Wash, perennial and intermittent reaches               | Lower Colorado- Marble<br>Canyon | PrHC, AgWS          |  |
| Cedar Wash, perennial and intermittent reaches               | Lower Little Colorado            | PrHC, AgWS          |  |
| Lee Canyon, perennial and intermittent reaches               | Lower Little Colorado            | PrHC, AgWS          |  |
| Tappan Wash, perennial and intermittent reaches              | Lower Little Colorado            | PrHC, AgWS          |  |
| Desert Creek, perennial and intermittent reaches             | Lower San Juan Four Corners      | PrHC, AgWS          |  |
| Gothic Creek, perennial and intermittent reaches             | Lower San Juan Four Corners      | PrHC, AgWS          |  |
| McCraken Canyon, perennial and intermittent reaches          | Lower San Juan Four Corners      | PrHC, AgWS          |  |
| Toh Dahstini Wash perennial and intermittent reaches         | Lower San Juan Four Corners      | PrHC,               |  |
| Gypsum Creek, perennial and intermittent reaches             | Lower San Juan River             | PrHC, AgWS          |  |
| Nokai Canyon, perennial and intermittent reaches             | Lower San Juan River             | PrHC, AgWS          |  |
| Oljeto Wash, perennial and intermittent reaches              | Lower San Juan River             | PrHC, AgWS          |  |
| Mancos River, perennial and intermittent reaches             | Mancos River                     | PrHC, AgWS          |  |
| Cove Wash, perennial and intermittent reaches                | Middle San Juan River            | PrHC, AgWS          |  |
| Eagle Nest Arroyo, perennial and intermittent reaches        | Middle San Juan River            | PrHC,               |  |
| Pine Wash, perennial and intermittent reaches                | Middle San Juan River            | PrHC, AgWS          |  |
| Red Wash, perennial and intermittent reaches                 | Middle San Juan River            | PrHC, AgWS          |  |
| Salt Creek Wash, perennial and intermittent reaches          | Middle San Juan River            | PrHC, AgWS          |  |

| New Uses Added to Waterbodies                                 |                             |            |  |
|---|-----------------------------|------------|--|
| Waterbody   | Cataloging Unit             | New Uses   |  |
| Standing Redrock Creek, perennial and intermittent reaches    | Middle San Juan River       | PrHC, AgWS |  |
| Begashibito Wash, perennial and intermittent reaches          | Moenkopi Wash               | PrHC, AgWS |  |
| Hamblin Wash, perennial and intermittent reaches              | Moenkopi Wash               | PrHC, AgWS |  |
| Moenkopi Wash, perennial and intermittent reaches             | Moenkopi Wash               | PrHC,      |  |
| Shonto Wash, perennial and intermittent reaches               | Moenkopi Wash               | PrHC, AgWS |  |
| Unnamed perennial and intermittent tributaries and playas     | North Plains                | PrHC, AgWS |  |
| Pollaca Wash, perennial and intermittent reaches              | Polacca Wash                | PrHC, AgWS |  |
| Rio Puerco and tributaries perennial and intermittent reaches | Rio Puerco                  | PrHC, AgWS |  |
| Rio Salado and tributaries perennial and intermittent reaches | Rio Salado                  | PrHC, AgWS |  |
| Rio San Jose perennial and intermittent tributaries           | Rio San Jose                | PrHC, AgWS |  |
| Tohdildonih Wash, perennial and intermittent reaches          | Upper Puerco                | PrHC,      |  |
| Puerco River, perennial and intermittent reaches              | Upper Puerco & Lower Puerco | PrHC, AgWS |  |
| Zuni River tributaries, perennial and intermittent reaches    | Zuni River                  | PrHC, AgWS |  |
| Arroyo Chico and tributaries, ephemeral reaches               | Arroyo Chico                | AgWS       |  |
| Blanco Canyon, ephemeral reaches                              | Blanco Canyon               | AgWS       |  |
| Largo Canyon, ephemeral reaches                               | Blanco Canyon               | AgWS       |  |
| Canyon Diablo, ephemeral reaches                              | Canyon Diablo               | AgWS       |  |
| Padre Canyon, ephemeral reaches                               | Canyon Diablo               | AgWS       |  |
| San Francisco Wash, ephemeral reaches                         | Canyon Diablo               | AgWS       |  |
| San Francisco Wash, perennial and intermittent reaches        | Canyon Diablo               | AgWS       |  |
| Yellow Jacket Canyon, ephemeral reaches                       | Canyon Diablo               | AgWS       |  |
| Youngs Canyon, ephemeral reaches                              | Canyon Diablo               | AgWS       |  |
| Berland Lake (cold water)                                     | Chaco                       | AgWS       |  |
| Brimhall Wash, ephemeral reaches                              | Chaco                       | AgWS       |  |
| Chaco River/Chaco Wash, ephemeral reaches                     | Chaco                       | AgWS       |  |
| Chinde Wash, , ephemeral reaches                              | Chaco                       | AgWS       |  |
| Chaco River/Chaco Wash, perennial and intermittent reaches    | Chaco                       | AgWS       |  |
| Cottonwood Arroyo, ephemeral reaches                          | Chaco                       | AgWS       |  |
| Chuska Lake (cold water)                                      | Chaco                       | AgWS       |  |
| De Na Zin Wash, ephemeral reaches                             | Chaco                       | AgWS       |  |
| Dead Man's Wash, ephemeral reaches                            | Chaco                       | AgWS       |  |
| Morgan Lake   | Chaco                       | AgWS       |  |
| Tocito Wash, ephemeral reaches                                | Chaco                       | AgWS       |  |
| Whiskey Lake (cold water)                                     | Chaco                       | AgWS       |  |
| Balakai Wash, ephemeral reaches                               | Chinle                      | AgWS       |  |
| Black Mountain Wash, ephemeral reaches                        | Chinle                      | AgWS       |  |
| Canyon de Chelly Wash, ephemeral reaches                      | Chinle                      | AgWS       |  |
| Aspen Lake (cold water)                                       | Chinle                      | AgWS       |  |
| Cottonwood Wash, ephemeral reaches                            | Chinle                      | AgWS       |  |
| Coyote Wash, ephemeral reaches                                | Chinle                      | AgWS       |  |

| New Uses Added to Waterbodies                            |                              |          |  |
|--|------------------------------|----------|--|
| Waterbody  | Cataloging Unit              | New Uses |  |
| Laguna Creek, ephemeral reaches                          | Chinle                       | AgWS     |  |
| Canyon de Chelly Wash, perennial and intermittent        | Chinle                       | AgWS     |  |
| reaches  |                              |          |  |
| Little Whiskey Creek, ephemeral reaches                  | Chinle                       | AgWS     |  |
| Palisade Creek, ephemeral reaches                        | Chinle                       | AgWS     |  |
| Tyende Creek, ephemeral reaches                          | Chinle                       | AgWS     |  |
| Laguna Creek, perennial and intermittent reaches         | Chinle                       | AgWS     |  |
| Little Whiskey Creek, perennial and intermittent reaches | Chinle                       | AgWS     |  |
| Palisade Creek, perennial and intermittent reaches       | Chinle                       | AgWS     |  |
| Corn Creek Wash, ephemeral reaches                       | Corn-Oraibi                  | AgWS     |  |
| Oraibi Wash, ephemeral reaches                           | Corn-Oraibi                  | AgWS     |  |
| Cottonwood Wash, ephemeral reaches                       | Cottonwood Wash              | AgWS     |  |
| Ganado Lake  | Cottonwood Wash              | AgWS     |  |
| Dinnebito Wash, ephemeral reaches                        | Dinnebito Wash               | AgWS     |  |
| East Fork Dinnebito Wash, ephemeral reaches              | Dinnebito Wash               | AgWS     |  |
| Jeddito Wash, ephemeral reaches                          | Jeddito Wash                 | AgWS     |  |
| Leroux Wash, ephemeral reaches                           | Leroux Wash                  | AgWS     |  |
| Antelope Lake (cold water)                               | Leroux Wash                  | AgWS     |  |
| Shinumo Wash, ephemeral reaches                          | Lower Colorado- Marble       | AgWS     |  |
| Zamana (, usa, opnomeru reuenes                          | Canyon                       | 115      |  |
| Tanner Wash, ephemeral reaches                           | Lower Colorado- Marble       | AgWS     |  |
|  | Canyon                       | 8        |  |
| Tatahatso Wash, ephemeral reaches                        | Lower Colorado- Marble       | AgWS     |  |
| 7 1  | Canyon                       |          |  |
| Tiger Wash, ephemeral reaches                            | Lower Colorado- Marble       | AgWS     |  |
|  | Canyon                       |          |  |
| Colorado River, cold water reaches                       | Lower Colorado- Marble       | AgWS     |  |
| ,  | Canyon and Lower Lake Powell |          |  |
| Colorado River, warm water reaches                       | Lower Colorado- Marble       | AgWS     |  |
| ,  | Canyon and Lower Lake Powell |          |  |
| Antelope Creek, ephemeral reaches                        | Lower Lake Powell            | AgWS     |  |
| Aztec Creek, ephemeral reaches                           | Lower Lake Powell            | AgWS     |  |
| Kaibito Creek, ephemeral reaches                         | Lower Lake Powell            | AgWS     |  |
| Navajo Creek, ephemeral reaches                          | Lower Lake Powell            | AgWS     |  |
| Antelope Creek, perennial and intermittent reaches       | Lower Lake Powell            | AgWS     |  |
| Aztec Creek, perennial and intermittent reaches          | Lower Lake Powell            | AgWS     |  |
| Kaibito Creek, perennial and intermittent reaches        | Lower Lake Powell            | AgWS     |  |
| Navajo Creek, perennial and intermittent reaches         | Lower Lake Powell            | AgWS     |  |
| Cedar Wash, ephemeral reaches                            | Lower Little Colorado        | AgWS     |  |
| Deadman Wash, ephemeral reaches                          | Lower Little Colorado        | AgWS     |  |
| Lee Canyon, ephemeral reaches                            | Lower Little Colorado        | AgWS     |  |
| Little Colorado River, ephemeral reaches                 | Lower Little Colorado        | AgWS     |  |
| Tappan Wash, ephemeral reaches                           | Lower Little Colorado        | AgWS     |  |
| Deadman Wash, perennial and intermittent reaches         | Lower Little Colorado        | AgWS     |  |
| Deadman wash, pereminal and intermittent reaches         | Lower Little Colorado        | Agwo     |  |

| New Uses Added to Waterbodies  |                             |          |  |
|--|-----------------------------|----------|--|
| Waterbody  | Cataloging Unit             | New Uses |  |
| Little Colorado River, mouth to origin of perennial flow (between mouth of Lee Canyon and USGS Gaging Station) | Lower Little Colorado       | AgWS     |  |
| Little Colorado River, perennial and intermittent reaches  | Lower Little Colorado       | AgWS     |  |
| Desert Creek, ephemeral reaches  | Lower San Juan Four Corners | AgWS     |  |
| Ephemeral tributaries to the San Juan River (except as listed)   | Lower San Juan Four Corners | AgWS     |  |
| Gothic Creek, ephemeral reaches  | Lower San Juan Four Corners | AgWS     |  |
| McCraken Canyon, ephemeral reaches   | Lower San Juan Four Corners | AgWS     |  |
| Teec Nos Pos Wash, ephemeral reaches   | Lower San Juan Four Corners | AgWS     |  |
| Perennial and intermittent tributaries to the San Juan River (except as listed)                                | Lower San Juan Four Corners | AgWS     |  |
| Gypsum Creek, , ephemeral reaches  | Lower San Juan River        | AgWS     |  |
| Nokai Canyon, ephemeral reaches  | Lower San Juan River        | AgWS     |  |
| Oljeto Wash, ephemeral reaches   | Lower San Juan River        | AgWS     |  |
| Mancos River, ephemeral reaches  | Mancos River                | AgWS     |  |
| Cove Wash, ephemeral reaches   | Middle San Juan River       | AgWS     |  |
| Ojo Amarillo, ephemeral reaches  | Middle San Juan River       | AgWS     |  |
| Pine Wash, ephemeral reaches   | Middle San Juan River       | AgWS     |  |
| Red Wash, ephemeral reaches  | Middle San Juan River       | AgWS     |  |
| Salt Creek Wash, ephemeral reaches   | Middle San Juan River       | AgWS     |  |
| Standing Redrock Creek, ephemeral reaches  | Middle San Juan River       | AgWS     |  |
| Ojo Amarillo, perennial and intermittent reaches   | Middle San Juan River       | AgWS     |  |
| Begashibito Wash, ephemeral reaches  | Moenkopi Wash               | AgWS     |  |
| Hamblin Wash, ephemeral reaches  | Moenkopi Wash               | AgWS     |  |
| Shonto Wash, ephemeral reaches   | Moenkopi Wash               | AgWS     |  |
| Cow Springs Lake   | Moenkopi Wash               | AgWS     |  |
| White Mesa Lake  | Moenkopi Wash               | AgWS     |  |
| Unnamed ephemeral tributaries and playas   | North Plains                | AgWS     |  |
| Polacca Wash, ephemeral reaches  | Polacca Wash                | AgWS     |  |
| Rio Puerco and tributaries, ephemeral reaches  | Rio Puerco                  | AgWS     |  |
| Alamo Creek, ephemeral reaches   | Rio Salado                  | AgWS     |  |
| Rio Salado and tributaries, ephemeral reaches  | Rio Salado                  | AgWS     |  |
| Alamo Creek, perennial and intermittent reaches  | Rio Salado                  | AgWS     |  |
| Bluewater Creek, ephemeral reaches   | Rio San Jose                | AgWS     |  |
| Rio San Jose ephemeral tributaries   | Rio San Jose                | AgWS     |  |
| Black Creek, ephemeral reaches   | Upper Puerco                | AgWS     |  |
| Bonito Creek, ephemeral reaches  | Upper Puerco                | AgWS     |  |
| Black Creek, perennial and intermittent reaches  | Upper Puerco                | AgWS     |  |
| Bonito Creek, perennial and intermittent reaches   | Upper Puerco                | AgWS     |  |
| Red Lake   | Upper Puerco                | AgWS     |  |
| Trout Lake (cold water)  | Upper Puerco                | AgWS     |  |
| Puerco River, ephemeral reaches  | Upper Puerco & Lower Puerco | AgWS     |  |
| Gallegos Canyon, ephemeral reaches   | Upper San Juan River        | AgWS     |  |
| Gallegos Canyon, perennial and intermittent reaches  | Upper San Juan River        | AgWS     |  |

| New Uses Added to Waterbodies                      |                 |            |  |
|--|-----------------|------------|--|
| Waterbody  | Cataloging Unit | New Uses   |  |
| Zuni River tributaries, ephemeral reaches          | Zuni River      | AgWS       |  |
| Coyote Wash, ephemeral reaches                     | Chaco           | ScHC, AgWS |  |
| Hunter Wash, ephemeral reaches                     | Chaco           | ScHC, AgWS |  |
| Indian Creek, ephemeral reaches                    | Chaco           | ScHC, AgWS |  |
| Sheep Springs Wash, ephemeral reaches              | Chaco           | ScHC, AgWS |  |
| Palisade Creek, perennial and intermittent reaches | Chinle          | AgWS       |  |

|  | aterbodies and     | 1   | 1    |      | A WEIG | EC | A O XX | T *** |
|--|--------------------|-----|------|------|--------|----|--------|-------|
| New Waterbody  | Cataloguing unit   | DOM | PrHC | ScHC | AgWS   | FC | A&W    | LW    |
| Captain Tom Reservoir  | Chaco              |     | PrHC | ScHC | AgWS   | FC | A&W    | LW    |
| Toadlena Fish Hatchery un-named ephemeral tributaries                  | Chaco              |     |      | ScHC | AgWS   |    | A&W    | LW    |
| Toadlena Fish Hatchery un-named intermittent and perennial tributaries | Chaco              |     | PrHC | ScHC | AgWS   | FC | A&W    | LW    |
| Alcove Canyon, ephemeral reaches                                       | Chinle             |     |      | ScHC | AgWS   |    | A&W    | LW    |
| Alcove Canyon, perennial and intermittent reaches                      | Chinle             |     | PrHC | ScHC | AgWS   | FC | A&W    | LW    |
| Bubbling Springs Canyon, ephemeral reaches                             | Chinle             |     |      | ScHC | AgWS   |    | A&W    | LW    |
| Bubbling Springs Canyon, perennial and intermittent reaches            | Chinle             |     | PrHC | ScHC | AgWS   | FC | A&W    | LW    |
| Dowozhiebito Canyon, ephemeral reaches                                 | Chinle             |     |      | ScHC | AgWS   |    | A&W    | LW    |
| Dowozhiebito Canyon, perennial and intermittent reaches                | Chinle             |     | PrHC | ScHC | AgWS   | FC | A&W    | LW    |
| Long Canyon, ephemeral reaches   | Chinle             |     |      | ScHC | AgWS   |    | A&W    | LW    |
| Long Canyon, perennial and intermittent reaches                        | Chinle             |     | PrHC | ScHC | AgWS   | FC | A&W    | LW    |
| White Rock Wash, ephemeral reaches                                     | Chinle             |     |      | ScHC | AgWS   |    | A&W    | LW    |
| White Rock Wash, perennial and intermittent reaches                    | Chinle             |     | PrHC | ScHC | AgWS   | FC | A&W    | LW    |
| Black Soil Wash, ephemeral reaches                                     | Cottonwood<br>Wash |     |      | ScHC | AgWS   |    | A&W    | LW    |
| Black Soil Wash, perennial and intermittent reaches                    | Cottonwood<br>Wash |     | PrHC | ScHC | AgWS   | FC | A&W    | LW    |
| Scattered Willow Wash, ephemeral reaches                               | Cottonwood<br>Wash |     |      | ScHC | AgWS   |    | A&W    | LW    |
| Scattered Willow Wash, perennial and intermittent reaches              | Cottonwood<br>Wash |     | PrHC | ScHC | AgWS   | FC | A&W    | LW    |
| Willow Creeek , ephemeral reaches                                      | Cottonwood<br>Wash |     |      | ScHC | AgWS   |    | A&W    | LW    |
| Willow Creek, perennial and intermittent reaches                       | Cottonwood<br>Wash |     | PrHC | ScHC | AgWS   | FC | A&W    | LW    |

| New W   | aterbodies and                         | Associa | ted Uses | Added |      |    |     |    |
|---|--|---------|----------|-------|------|----|-----|----|
| New Waterbody   | Cataloguing unit                       | DOM     | PrHC     | ScHC  | AgWS | FC | A&W | LW |
| Big Canyon, ephemeral reaches   | Lower<br>Colorado-<br>Marble<br>Canyon |         |          | ScHC  | AgWS |    | A&W | LW |
| Big Canyon, perennial and intermittent reaches                                  | Lower<br>Colorado-<br>Marble<br>Canyon |         | PrHC     | ScHC  | AgWS | FC | A&W | LW |
| Salt Trail Canyon, ephemeral reaches  | Lower<br>Colorado-<br>Marble<br>Canyon |         |          | ScHC  | AgWS |    | A&W | LW |
| Salt Trail Canyon, perennial and intermittent reaches                           | Lower<br>Colorado-<br>Marble<br>Canyon |         | PrHC     | ScHC  | AgWS | FC | A&W | LW |
| Cha Canyon - ephemeral reaches  | Lower San<br>Juan River                |         |          | ScHC  | AgWS |    | A&W | LW |
| Cha Canyon - intermittent reaches   | Lower San<br>Juan River                |         | PrHC     | ScHC  | AgWS | FC | A&W | LW |
| Cha Canyon - perennial reaches  | Lower San<br>Juan River                | Dom     | PrHC     | ScHC  | AgWS | FC | A&W | LW |
| Ephemeral tributaries to the San Juan River (except as listed)                  | Lower San<br>Juan River                |         |          | ScHC  | AgWS |    | A&W | LW |
| Perennial and intermittent tributaries to the San Juan River (except as listed) | Lower San<br>Juan River                |         | PrHC     | ScHC  | AgWS | FC | A&W | LW |
| Piute Canyon, ephemeral reaches   | Lower San<br>Juan River                |         |          | ScHC  | AgWS |    | A&W | LW |
| Piute Canyon, perennial and intermittent reaches                                | Lower San<br>Juan River                |         | PrHC     | ScHC  | AgWS | FC | A&W | LW |
| San Juan River  | Lower San<br>Juan River                | Dom     | PrHC     | ScHC  | AgWS | FC | A&W | LW |
| Little Colorado River, ephemeral reaches  | Middle Little<br>Colorado              |         |          | ScHC  | AgWS |    | A&W | LW |
| Little Colorado River, perennial and intermittent reaches                       | Middle Little<br>Colorado              |         | PrHC     | ScHC  | AgWS | FC | A&W | LW |
| Ephemeral tributaries to the San Juan River (except as listed)                  | Middle San<br>Juan River               |         |          | ScHC  | AgWS |    | A&W | LW |
| Perennial and intermittent tributaries to the San Juan River (except as listed) | Middle San<br>Juan River               |         | PrHC     | ScHC  | AgWS | FC | A&W | LW |
| San Juan River  | Middle San<br>Juan River               | Dom     | PrHC     | ScHC  | AgWS | FC | A&W | LW |

| New Waterbodies and Associated Uses Added |                  |     |      |      |      |    |     |    |
|---|------------------|-----|------|------|------|----|-----|----|
| New Waterbody                             | Cataloguing unit | DOM | PrHC | ScHC | AgWS | FC | A&W | LW |
| Ephemeral tributaries to the San Juan     | Upper San        |     |      | ScHC | AgWS |    | A&W | LW |
| River (except as listed)                  | Juan River       |     |      |      |      |    |     |    |
| Perennial and intermittent tributaries    | Upper San        |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| to the San Juan River (except as          | Juan River       |     |      |      |      |    |     |    |
| listed)                                   |                  |     |      |      |      |    |     |    |
| San Juan River                            | Upper San        | Dom | PrHC | ScHC | AgWS | FC | A&W | LW |
|   | Juan River       |     |      |      |      |    |     |    |
| West Fork Gallegos Canyon,                | Upper San        |     |      | ScHC | AgWS |    | A&W | LW |
| ephemeral reaches                         | Juan River       |     |      |      |      |    |     |    |
| West Fork Gallegos Canyon,                | Upper San        |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| perennial and intermittent reaches        | Juan River       |     |      |      |      |    |     |    |

| <b>Table 206.2</b>         | Summary  |  |
|----------------------------|--|--|
| Max. Total Ammonia (Acute) | Removed, and replaced with tables 207.19, 207.20, and 207.21 |  |
| Table 206.3 Summary        |  |  |
| Table 206.3                | Summary  |  |

| Table 207.1 Numeric SWQS     | Summary (criteria values deta     | niled in Enclosure B Tables 5-10  |
|------------------------------|-----------------------------------|-----------------------------------|
|                              | Hexachlorocyclopentadiene         | Dibutyl phthalate                 |
|                              | Nitrobenzene                      | Dieldrin                          |
|                              | Benzene                           | Diethyl phthalate                 |
|                              | Bis(2-ethylhexyl)phthalate        | Dimethyl phthalate                |
|                              | Barium (Ba)                       | Dinitrophenols                    |
|                              | Boron                             | Di-n-octyl phthalate              |
|                              | 2-Chlorophenol                    | Dinoseb                           |
|                              | 1,1,2-Trichloroethane             | Diquat                            |
|                              | 1,2,4,5-Tetrachlorobenzene        | Endosulfan (Total)                |
|                              | 1,2,4-Trichlorobenzene            | Endosulfan sulfate                |
|                              | 1,3-Dichlorobenzene               | Endothall                         |
|                              | 1,3-Dichloropropene               | Endrin                            |
|                              | 2,4,5-Trichlorophenol             | Ethylbenzene                      |
|                              | 2,4-Dichlorophenol                | Fluoranthene                      |
|                              | 2,4-Dimethyl phenol               | Fluorene                          |
|                              | 2,4-Dinitrophenol                 | gamma-Hexacholorcyclohexane (HCH) |
|                              | 2,4-Dinitrotoluene                | Glyphosate                        |
|                              | 2,6-Dinitrotoluene                | Heptachlor                        |
|                              | 2-Chloronaphthalene               | Heptachlor epoxide                |
| <b>Drinking Water Source</b> | 2-methyl-4,6-Dinitrophenol        | Hexachlorobenzene                 |
|                              | 3-methyl 4-Chlorophenol           | Hexachlorobutadiene               |
|                              | Acenaphthene                      | Hexachlorocyclohexane (HCH)-      |
|                              | Alachlor                          | Technical                         |
|                              | Aldrin                            | Hexachloroethane                  |
|                              | alpha-Endosulfan                  | Indeno(1,2,3-cd)pyrene            |
|                              | alpha-Hexacholorcyclohexane (HCH) | Isophorone                        |
|                              | Anthracene                        | Manganese                         |
|                              | Atrazine                          | Methoxychlor                      |
|                              | Benzo(a)anthracene                | p,p'-DDD (p,p-                    |
|                              | Benzo(a)pyrene                    | Dichlorodiphenyldichloroethane)   |
|                              | Benzo(b)fluoranthene              | p,p'-DDE (p,p-                    |
|                              | beta-Endosulfan                   | Dichlorodiphenyldichloroethene)   |
|                              | beta-Hexacholorcyclohexane (HCH)  | p,p'-DDT (p,p-                    |
|                              | Bis(2-chloroisopropyl)ether       | Dichlorodiphenyltrichloroethane)  |
|                              | Bis(2-ethylhexyl) adipate         | Pentachlorobenzene                |
|                              | Bis(Chloromethyl) ether           | Pentachlorophenol                 |
|                              | Butyl benzyl phthalate            | Pyrene                            |
|                              | Chlordane                         | Toluene                           |
|                              | Dibenzo(a,h)anthracene            | Trichloroethene                   |

| Table 207.1 Numeric SWQS | Summary (criteria values deta  | ailed in Enclosure B Tables 5-10   |
|--------------------------|--|--|
| Fish Consumption         | acid (2,4,5-TP)  2,4,5-Trichlorophenol  2,4-Dichlorophenol  2,4-Dichlorphenoxyacetic acid (2,4-D)  2,4-Dimethyl phenol  2,4-Dinitrophenol  2,4-Dinitrotoluene  2-Chloronaphthalene  2-methyl-4,6-Dinitrophenol  3,3'-Dichlorobenzidine  Acenaphthene  Aldrin  Benzo(a)anthracene  Benzo(b)fluoranthene  beta-Hexacholorcyclohexane (HCH) | Chlordane Dibenzo(a,h)anthracene Dibutyl phthalate Diethyl phthalate Dimethyl phthalate Dimitrophenols Endosulfan (Total) Endrin Ethylbenzene Fluoranthene Fluorene gamma-Hexacholorcyclohexane (HCH) Glyphosate Heptachlor Heptachlor epoxide Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclohexane (HCH)- Technical Hexachlorocyclohexane (HCH)- Technical Hexachloroethane Indeno(1,2,3-cd)pyrene Methoxychlor p,p'-DDD (p,p- Dichlorodiphenyldichloroethane) p,p'-DDE (p,p- Dichlorodiphenyldichloroethene) p,p'-DDT (p,p- Dichlorodiphenyltrichloroethane) Pentachlorobenzene Pentachlorophenol Pyrene Toluene Trichloroethene Vinyl Chloride |
| Primary Contact          | Di-n-octyl phthalate<br>Dinoseb<br>Diquat<br>Glyphosate<br>Guthion   | Hexachlorobenzene Hexachlorocyclohexane (HCH)- Technical Manganese Pentachlorobenzene  |
| Secondary Contact        | Di-n-octyl phthalate<br>Dinoseb<br>Diquat<br>Endosulfan (Total)  | Endothall<br>Fluoride<br>Glyphosate<br>Manganese   |

| Table 207.1 Numeric SWQS                | Summary (criteria values detailed in Enclosure B Tables 5-10   |   |  |  |  |
|---|--|---|--|--|--|
| Agriculture                             | 1,1,1-Trichloroethane<br>Aluminum (Al) (pH 6.5-9.0 for A&W)<br>Boron<br>Cobalt (Co)<br>Copper (Cu)<br>Dieldrin | Endrin Manganese Molybdenum (Mo) Nickel (Ni) Polychlorinated biphenyls (PCBs) Toxaphene Vanadium (V)                              |  |  |  |
| Livestock Watering                      | Cobalt (Co)  | Endrin Gross Alpha (pCi/L) (See (d)) Mercury (Hg) Nirite+Nitrate-N (mg/L) Polychlorinated biphenyls (PCBs) Toxaphene Vanadium (V) |  |  |  |
| Aquatic (Acute)                         | Alachlor<br>Endosulfan (Total)   | Guthion<br>Mercury (Hg)   |  |  |  |
| Aquatic (Chronic)                       | Alachlor<br>Endosulfan (Total)<br>Guthion<br>Heptachlor<br>Heptachlor epoxide                                  | Hexachlorobenzene<br>Mercury (Hg)<br>Methylmercury<br>Endrin<br>Endrin aldehyde   |  |  |  |
| <b>Table 207.19</b>                     | Sum  | mary  |  |  |  |
| Max. Total Ammonia<br>Salmonids (Acute) | Updated standard to address salmonid p   | presence.   |  |  |  |
| <b>Table 207.20</b>                     | Summary  |   |  |  |  |
| Max. Total Ammonia (Acute)              | Updated standard to address salmonid absence.  |   |  |  |  |
| <b>Table 207.21</b>                     | Summary  |   |  |  |  |
| Max. Total Ammonia                      | Updated standard to address salmonid absence.  |   |  |  |  |
| (Chronic)                               | Footnotes were removed   |   |  |  |  |

#### **Enclosure B**

#### **EPA Review of Navajo Nation 2015 Surface Water Quality Standards**

# **Background**

On January 23, 2006, EPA approved the Navajo Nation's application for Treatment in a similar manner as a state (TAS) for purposes of administering a water quality standards (WQS) program under Section 303 of the Clean Water Act (CWA). Section 303 of the CWA, 33 U.S.C. §1313, requires states and TAS-approved tribes to establish WQS and to submit any new or revised standards to EPA for review and approval or disapproval. See also 40 C.F.R. Part 131. Navajo Nation's adoption of new or revised WOS involved the following actions: On March 10, 2016, the Navajo Nation Environmental Protection Agency (NNEPA) published a Notice of Proposed Rulemaking of WOS revisions. On August 11, 2016 Navajo Nation solicited public comments, and on September 29, 2016 the Tribe held a public hearing. The NNEPA prepared a response to comments and amended the text of some of the proposed rules. The proposed amendments were approved by Navajo Nation Council's Resources and Development Committee through resolution RDCMY-43-17 on May 23, 2017. A certification from the Attorney General for Navajo Nation, Ethel Branch, dated November 14, 2018, stated that the revisions were duly adopted pursuant to Navajo Nation law. NNEPA transmitted the revisions to EPA by letter received on November 20, 2018. Supplemental technical information was submitted electronically and received November 13, 2019. As discussed more fully below, where EPA has determined that the Navajo Nation's rule revisions are new or revised water quality standards, EPA has reviewed and acted on these revisions pursuant to Section 303(c) of the CWA.<sup>1</sup>

# **Synopsis of Recommendation**

Section 303(c) of the CWA directs states to adopt WQS for waters that are subject to the CWA. Section 303(c) of the CWA's implementing regulations at 40 C.F.R. Part 131, require, among other things, that WQS specify appropriate designated uses of the waters and water quality criteria that protect those uses. EPA reviews the WQS to determine if they are consistent with the factors listed at 40 C.F.R. § 131.5 and contain the minimum requirements listed at 40 C.F.R. § 131.6.

The NNEPA submitted changes in multiple sections and tables with deletions to Navajo Nation's WQS regulations shown as stricken and additions shown as underlined.

As described below, EPA finds the following amendments to be consistent with 40 C.F.R. Part 131 and approves these Provisions pursuant to Section 303(c) of the CWA:

- § 104 Definitions parts E, I, X, Z, GG, LL, YY;
- § 201 Antidegradation policy sections D, F, G, H, I;
- § 202 Antidegradation Policy Implementation Methods; § 203 A;
- § 206 Designated Use Classification (sections B, C, D, E, G, I; § 207 D, E, I and (Tables: 206.1, 206.2, 206.3),)

<sup>&</sup>lt;sup>1</sup> EPA has provided FAQs on "What is a New or Revised Water Quality Standard Under CWA 303(c)(3)?" at https://www.epa.gov/sites/production/files/2014-11/documents/cwa303faq.pdf. The link provides detailed information of such analysis.

- § 207 Numeric Surface WQS (including tables 207.1, 207.19, 207.20, and 207.21), § 209
   Exceptional Waters
- § 212 Site-Specific Standards;
- § 213 Natural Background; and Ammonia criteria tables

# **Synopsis of Disapproval**

As described below, EPA finds the following amendments are not consistent with 40 C.F.R. Part 131 and disapproves these provisions pursuant to Section 303(c) of the CWA:

- § 207 Numeric surface WQS, except sections noted below
- Table 207.1 Numeric Surface WQS for:
  - o Bis(2-ethylhexyl)phthalate criterion for primary contact use
  - o Cadmium acute and chronic criteria for aquatic and wildlife

## **Synopsis of Information Request**

EPA is not acting on the following amendment and offers NNEPA the opportunity to submit additional information.

• § 207 Numeric surface WQS, Section E. Suspended Solids

#### Analysis of State/Tribe/Territory Submittal

# **EPA Approval of WQS**

Navajo Nation's new and/or revised water quality standards, described below are consistent with CWA section 303(c) and 40 C.F.R. Part 131 and are approved as described below.

### § 104 DEFINITIONS

EPA finds that the updated and added definitions in § 104 for: Assimilative Capacity, Chronic Standard, Hardness, Ephemeral Surface Water, Intermittent Surface Water, Perennial Surface Water, and Waters of the Navajo Nation are consistent with EPA guidance. The removal of "Unique Waters" is consistent with the replacement in "Exceptional Waters" of the Navajo Nation.

EPA finds the Changes to Critical Flow Condition, Toxic Pollutant to be directed at implementation activities and are thus outside of the scope of this action.

Updates to Dissolved, Pollution, Perennial Surface Water are editorial in nature. EPA finds these updates to be non-substantive changes. EPA acknowledges these non-substantive changes to previously approved WQS in order to ensure public transparency as to which provisions are applicable for purposes of the CWA in accordance with 40 C.F.R § 131.21(c). EPA's acknowledgement of the non-substantive changes does not constitute an action on the underlying previously approved WQS because they are not new or revised. See: What is a new or revised WQS FAQ

(https://www.epa.gov/sites/production/files/2014-11/documents/cwa303faq.pdf).

### § 201 ANTIDEGRADATION POLICY

NNEPA's new updates to § 201 are as follows:

Removal of section D, the unique waters identified is changed to exceptional waters in section I below "Where high quality waters or Unique Waters constitute an outstanding resource of the Navajo Nation, such as waters of National parks and monuments, Tribal parks and wildlife refuges, and other waters of exceptional recreational, cultural or ecological significance, that water quality shall be maintained and protected."

- F. The Director shall determine whether there is degradation of water quality in a surface water on a pollutant-by-pollutant basis.
- G. Tier 1: The level of water quality necessary to protect existing uses shall be maintained and protected. No degradation of existing water quality is permitted in a surface water where the existing water quality does not meet the applicable water quality standard.
- H. Tier 2: Where existing water quality in a surface water is better than the applicable water quality standard, the existing water quality shall be maintained and protected. The Director may allow limited degradation of existing water quality in the surface water, provided that the Department holds a public hearing on whether degradation should be allowed, and the Director makes all of the following findings:
  - 1 The level of water quality necessary to protect existing uses is fully protected. Water quality shall not be lowered to a level that does not comply with applicable water quality standards.
  - 2 The highest statutory and regulatory requirements for new and existing point sources are achieved.
  - 3 All cost-effective and reasonable best management practices for non-point source pollution control are implemented.
  - 4 Allowing lower water quality is necessary to accommodate important economic or social development in the area where the surface water is located.
- I. Tier 3: Existing water quality shall be maintained and protected in a surface water that is classified as a Exceptional Water of the Navajo Nation under NNSWQS 2015 Section 209. The Director shall not allow degradation of an Exceptional Water of the Navajo Nation under Section 209 Subsection (C)."

EPA finds that NNEPA's modifications to the antidegradation policy are consistent with the regulations at 40 C.F.R. § 131.12.

#### § 202 ANTIDEGRADATION IMPLEMENTATION

NNEPA made substantial revisions to their antidegradation implementation procedures. Per 40 C.F.R. § 131.12, EPA does not approve antidegradation implementation methods such as those described in § 202. Rather pursuant to 40 C.F.R. § 131.12(b), EPA must ensure that each state or tribe's antidegradation policy is consistent with the requirements outlined in 40 C.F.R. § 131.12. EPA finds that these changes are consistent with 40 C.F.R. § 131.12.

### § 203. NARRATIVE WATER QUALITY STANDARDS

Under section A. NNEPA revised language in their narrative water quality standards. In two instances NNEPA replaced the phrase "indigenous aquatic plant and animal communities or any member of these communities; of any desirable non-indigenous member of these communities; of waterfowl accessing the water body; or otherwise adversely affect the physical, chemical, or biological conditions on which these communities and their members depend" with "aquatic life and wildlife" EPA finds these two changes to be editorial and therefore non-substantive changes.

NNEPA also added language under section B, which is their "free from toxics" narrative WQS stating "Aquatic toxicity may be determined by the "National Whole Effluent Toxicity (WET) Implementation Guidance Under the NPDES Program, Draft, U.S. Environmental Protection Agency, Office of Wastewater Management, (EPA-832-B-04-003) (November 2004)" which is incorporated by reference."

EPA acknowledges these non-substantive changes to previously approved WQS in order to ensure public transparency as to which provisions are applicable for purposes of the CWA in accordance with 40 C.F.R § 131.21(c). EPA's acknowledgement of the non-substantive changes does not constitute an action on the underlying previously approved WQS because they are not new or revised. See: What is a new or revised WQS FAQ (<a href="https://www.epa.gov/sites/production/files/2014-11/documents/cwa303faq.pdf">https://www.epa.gov/sites/production/files/2014-11/documents/cwa303faq.pdf</a>).

# § 206 DESIGNATED USE CLASSIFICATION SYSTEM FOR NAVAJO NATION SURFACE WATERS.

The changes to sections A and F are editorial in nature and are noted as a non-substantive changes. Revisions and new sections B through E, and G are non-substantive changes that reflect NNEPA's internal processes for use attainability analyses (UAA) and its intent to comply with regulations in 40 C.F.R. § 131.10.

EPA acknowledges these non-substantive changes to previously approved WQS in order to ensure public transparency as to which provisions are applicable for purposes of the CWA in accordance with 40 C.F.R § 131.21(c). EPA's acknowledgement of the non-substantive changes does not constitute an action on the underlying previously approved WQS because they are not new or revised. See: What is a new or revised WQS FAQ (<a href="https://www.epa.gov/sites/production/files/2014-11/documents/cwa303fag.pdf">https://www.epa.gov/sites/production/files/2014-11/documents/cwa303fag.pdf</a>).

NNEPA also added a new section (I) with the following text.

The following minimum designated uses apply to a surface water that is not listed in Table 206.1 but that is a tributary to a listed surface water:

- 1 The aquatic and wildlife, agricultural water supply, secondary human contact and livestock watering designated uses apply to a tributary that is an ephemeral water.
- 2 The aquatic and wildlife, agricultural water supply, secondary human contact, primary human contact, fish consumption and livestock watering designated uses apply to an unlisted tributary that is a perennial or intermittent surface water.

This guidance in item 2 (above) clarifies NNEPA's intent to provide all designated uses to perennial and intermittent tributaries that are not included by name in Table 206.1. The guidance in item 1 (above) clarifies NNEPA's intent not to provide primary contact or fish consumption uses to unnamed tributaries that are ephemeral.

NNEPA has updated Table 206.1 to reflect this clarification. On November 13, 2019 Navajo Nation provided EPA with the use attainability analysis to support these changes. The following text is the use ability analysis that NNEPA provided to EPA:

"Based on current available information and analyses, PrHC and FC are not current uses of ephemeral reaches and cannot be attained in ephemerally flowing surface waters. (A detailed list of each surface water body for which these changes were made may be found in Attachment B to this letter).

This determination is consistent with 40 Code of Federal Regulation 131.10(g) which allows for states (and tribes) to remove a designated use which is not an existing use, as defined in federal Clean Water Act  $\S$  131.3, and 40 Code of Federal Regulation 131.10(g)(2) which states that ephemeral flow conditions prevent the attainment of the use.

All surface waters of the Navajo Nation, including perennial, intermittent, and ephemeral waters are used, or have the potential to be used, as water supply for agriculture. Therefore Agricultural Water Supply (AgWS) was designated as a use for all surface water bodies listed in Table 206.1. The AgWS is a use which may be attained by perennial, intermittent, and ephemeral surface waters of the Navajo Nation.

This determination for ephemeral waters is consistent with 40 Code of Federal Regulation 131.10(j)(1) which allows for states (and tribes) to designate uses that do not include the uses specified in federal Clean Water Act  $\S$  101(a)(2).

The "domestic water supply" designated use was removed from the Puerco River. Domestic water supply is not an existing use of the Puerco River. And the Puerco River receives effluent from the Gallup, New Mexico waste water treatment facility so this use cannot currently be attained.

This determination is consistent with 40 Code of Federal Regulation 131.10(g) which allows for states (and tribes) to remove a designated use which is not an existing use, as defined in federal Clean Water Act § 131.3, and 40 Code of Federal Regulation 131.10(g) (3) which states that human caused conditions or sources of pollution prevent the attainment of the use.

The ephemeral flowing segments of the Little Colorado River are not currently used for "domestic water supply" and this use cannot currently be attained.

This determination is consistent with 40 Code of Federal Regulation 131.10(g) which allows for states (and tribes) to remove a designated use which is not an existing use, as defined in federal Clean Water Act  $\S$  131.3, and 40 Code of Federal Regulation 131.10(g)(2) which states that ephemeral flow conditions prevent the attainment of the use."

In total NNEPA changed over 650 waterbody and designated use combinations in Table 206.1, as detailed in the below three tables. Designated uses applied to waters are: Domestic Water Supply (DOM), Primary Human Contact (PrHC), Secondary Human contact (ScHC), Agricultural Water Supply (AgWS), Fish Consumption (FC), Aquatic and Wildlife (A&W), Livestock Watering (LW). The water previously listed as Colorado River mouth of Paria River to Glen Canyon Dam, within the Lower Lake Powell cataloguing unit was wholly removed and subdivided multiple waterbodies within the same cataloguing unit in accordance with 40 C.F.R. § 131.10(g) factor 2.

Table 1 Designated use changes requiring a UAA in Table 206.1

| Waterbody                                       | Cataloging Unit | Uses<br>Removed   | 40<br>C.F.R.<br>131.10(g)<br>factor |
|---|-----------------|-------------------|-------------------------------------|
| Nazlini Wash, ephemeral reaches                 | Chinle          | PrHC,<br>AgWS, FC | 2                                   |
| Arroyo Chico and tributaries, ephemeral reaches | Arroyo Chico    | PrHC, FC          | 2                                   |
| Blanco Canyon, ephemeral reaches                | Blanco Canyon   | PrHC, FC          | 2                                   |
| Largo Canyon, ephemeral reaches                 | Blanco Canyon   | PrHC, FC          | 2                                   |
| Canyon Diablo, ephemeral reaches                | Canyon Diablo   | PrHC, FC          | 2                                   |
| Padre Canyon, ephemeral reaches                 | Canyon Diablo   | PrHC, FC          | 2                                   |
| San Francisco Wash, ephemeral reaches           | Canyon Diablo   | PrHC, FC          | 2                                   |
| Yellow Jacket Canyon, ephemeral reaches         | Canyon Diablo   | PrHC, FC          | 2                                   |
| Youngs Canyon, ephemeral reaches                | Canyon Diablo   | PrHC, FC          | 2                                   |
| Brimhall Wash, ephemeral reaches                | Chaco           | PrHC, FC          | 2                                   |
| Captain Tom Wash, ephemeral reaches             | Chaco           | PrHC, FC          | 2                                   |
| Chaco River/Chaco Wash, ephemeral reaches       | Chaco           | PrHC, FC          | 2                                   |
| Chinde Wash, ephemeral reaches                  | Chaco           | PrHC, FC          | 2                                   |
| Cottonwood Arroyo, ephemeral reaches            | Chaco           | PrHC, FC          | 2                                   |
| Coyote Wash, ephemeral reaches                  | Chaco           | PrHC, FC          | 2                                   |
| De Na Zin Wash, ephemeral reaches               | Chaco           | PrHC, FC          | 2                                   |
| Dead Man's Wash, ephemeral reaches              | Chaco           | PrHC, FC          | 2                                   |
| Hunter Wash, ephemeral reaches                  | Chaco           | PrHC, FC          | 2                                   |
| Indian Creek, ephemeral reaches                 | Chaco           | PrHC, FC          | 2                                   |
| Red Willow Wash, ephemeral reaches              | Chaco           | PrHC, FC          | 2                                   |
| Sanostee Wash, ephemeral reaches                | Chaco           | PrHC, FC          | 2                                   |
| Sheep Springs Wash, ephemeral reaches           | Chaco           | PrHC, FC          | 2                                   |
| Tocito Wash, ephemeral reaches                  | Chaco           | PrHC, FC          | 2                                   |
| Balakai Wash, ephemeral reaches                 | Chinle          | PrHC, FC          | 2                                   |
| Black Mountain Wash, ephemeral reaches          | Chinle          | PrHC, FC          | 2                                   |
| Canyon de Chelly Wash, ephemeral reaches        | Chinle          | PrHC, FC          | 2                                   |
| Canyon del Muerto Wash, ephemeral reaches       | Chinle          | PrHC, FC          | 2                                   |
| Chinle Creek/Chinle Wash, ephemeral reaches     | Chinle          | PrHC, FC          | 2                                   |
| Cottonwood Wash, ephemeral reaches              | Chinle          | PrHC, FC          | 2                                   |
| Coyote Wash, ephemeral reaches                  | Chinle          | PrHC, FC          | 2                                   |
| Crystal Creek, ephemeral reaches                | Chinle          | PrHC, FC          | 2                                   |
| Laguna Creek, ephemeral reaches                 | Chinle          | PrHC, FC          | 2                                   |
| Little Whiskey Creek, ephemeral reaches         | Chinle          | PrHC, FC          | 2                                   |
| Lukachukai Wash, ephemeral reaches              | Chinle          | PrHC, FC          | 2                                   |
| McElmo Creek, ephemeral reaches                 | Chinle          | PrHC, FC          | 2                                   |
| Montezuma Creek, ephemeral reaches              | Chinle          | PrHC, FC          | 2                                   |
| Palisade Creek, ephemeral reaches               | Chinle          | PrHC, FC          | 2                                   |
| Tohtso Creek, ephemeral reaches                 | Chinle          | PrHC, FC          | 2                                   |
| Tsaile Creek, ephemeral reaches                 | Chinle          | PrHC, FC          | 2                                   |

| Waterbody  | Cataloging Unit                  | Uses<br>Removed | 40<br>C.F.R.<br>131.10(g)<br>factor |
|--|----------------------------------|-----------------|-------------------------------------|
| Tyende Creek, ephemeral reaches                                | Chinle                           | PrHC, FC        | 2                                   |
| Walker Creek, ephemeral reaches                                | Chinle                           | PrHC, FC        | 2                                   |
| Wheatfields Creek, ephemeral reaches                           | Chinle                           | PrHC, FC        | 2                                   |
| Whiskey Creek, ephemeral reaches                               | Chinle                           | PrHC, FC        | 2                                   |
| Corn Creek Wash, ephemeral reaches                             | Corn-Oraibi                      | PrHC, FC        | 2                                   |
| Oraibi Wash, ephemeral reaches                                 | Corn-Oraibi                      | PrHC, FC        | 2                                   |
| Cottonwood Wash, ephemeral reaches                             | Cottonwood Wash                  | PrHC, FC        | 2                                   |
| Kinlichee Creek, ephemeral reaches                             | Cottonwood Wash                  | PrHC, FC        | 2                                   |
| Pueblo Colorado Wash, ephemeral reaches                        | Cottonwood Wash                  | PrHC, FC        | 2                                   |
| Dinnebito Wash, ephemeral reaches                              | Dinnebito Wash                   | PrHC, FC        | 2                                   |
| East Fork Dinnebito Wash, ephemeral reaches                    | Dinnebito Wash                   | PrHC, FC        | 2                                   |
| Jeddito Wash, ephemeral reaches                                | Jeddito Wash                     | PrHC, FC        | 2                                   |
| Leroux Wash, ephemeral reaches                                 | Leroux Wash                      | PrHC, FC        | 2                                   |
| Shinumo Wash, ephemeral reaches                                | Lower Colorado-<br>Marble Canyon | PrHC, FC        | 2                                   |
| Tanner Wash, ephemeral reaches                                 | Lower Colorado-<br>Marble Canyon | PrHC, FC        | 2                                   |
| Tatahatso Wash, ephemeral reaches                              | Lower Colorado-<br>Marble Canyon | PrHC, FC        | 2                                   |
| Tiger Wash, ephemeral reaches                                  | Lower Colorado-<br>Marble Canyon | PrHC, FC        | 2                                   |
| Antelope Creek, ephemeral reaches                              | Lower Lake Powell                | PrHC, FC        | 2                                   |
| Aztec Creek, ephemeral reaches                                 | Lower Lake Powell                | PrHC, FC        | 2                                   |
| Kaibito Creek, ephemeral reaches                               | Lower Lake Powell                | PrHC, FC        | 2                                   |
| Navajo Creek, ephemeral reaches                                | Lower Lake Powell                | PrHC, FC        | 2                                   |
| Cedar Wash, ephemeral reaches                                  | Lower Little Colorado            | PrHC, FC        | 2                                   |
| Deadman Wash, ephemeral reaches                                | Lower Little Colorado            | PrHC, FC        | 2                                   |
| Lee Canyon, ephemeral reaches                                  | Lower Little Colorado            | PrHC, FC        | 2                                   |
| Little Colorado River, ephemeral reaches                       | Lower Little Colorado            | Dom. PrHC, FC   | 2                                   |
| Tappan Wash, ephemeral reaches                                 | Lower Little Colorado            | PrHC, FC        | 2                                   |
| Desert Creek, ephemeral reaches                                | Lower San Juan Four<br>Corners   | PrHC, FC        | 2                                   |
| Ephemeral tributaries to the San Juan River (except as listed) | Lower San Juan Four<br>Corners   | PrHC, FC        | 2                                   |
| Gothic Creek, ephemeral reaches                                | Lower San Juan Four<br>Corners   | PrHC, FC        | 2                                   |
| McCraken Canyon, ephemeral reaches                             | Lower San Juan Four<br>Corners   | PrHC, FC        | 2                                   |
| Teec Nos Pos Wash, ephemeral reaches                           | Lower San Juan Four<br>Corners   | PrHC, FC        | 2                                   |
| Toh Dahstini Wash ephemeral reaches                            | Lower San Juan Four<br>Corners   | PrHC, FC        | 2                                   |

| Waterbody                                     | Cataloging Unit       | Uses<br>Removed | 40<br>C.F.R.<br>131.10(g)<br>factor |
|---|-----------------------|-----------------|-------------------------------------|
| Gypsum Creek, ephemeral reaches               | Lower San Juan River  | PrHC, FC        | 2                                   |
| Nokai Canyon, ephemeral reaches               | Lower San Juan River  | PrHC, FC        | 2                                   |
| Oljeto Wash, ephemeral reaches                | Lower San Juan River  | PrHC, FC        | 2                                   |
| Mancos River, ephemeral reaches               | Mancos River          | PrHC, FC        | 2                                   |
| Baker Arroyo, ephemeral reaches               | Middle San Juan River | PrHC, FC        | 2                                   |
| Cove Wash, ephemeral reaches                  | Middle San Juan River | PrHC, FC        | 2                                   |
| Eagle Nest Arroyo, ephemeral reaches          | Middle San Juan River | PrHC, FC        | 2                                   |
| Ojo Amarillo, ephemeral reaches               | Middle San Juan River | PrHC, FC        | 2                                   |
| Pine Wash, ephemeral reaches                  | Middle San Juan River | PrHC, FC        | 2                                   |
| Red Wash, ephemeral reaches                   | Middle San Juan River | PrHC, FC        | 2                                   |
| Salt Creek Wash, ephemeral reaches            | Middle San Juan River | PrHC, FC        | 2                                   |
| Standing Redrock Creek, ephemeral reaches     | Middle San Juan River | PrHC, FC        | 2                                   |
| Begashibito Wash, ephemeral reaches           | Moenkopi Wash         | PrHC, FC        | 2                                   |
| Hamblin Wash, ephemeral reaches               | Moenkopi Wash         | PrHC, FC        | 2                                   |
| Moenkopi Wash, ephemeral reaches              | Moenkopi Wash         | PrHC, FC        | 2                                   |
| Shonto Wash, ephemeral reaches                | Moenkopi Wash         | PrHC, FC        | 2                                   |
| Unnamed ephemeral tributaries and playas      | North Plains          | PrHC, FC        | 2                                   |
| Polacca Wash, ephemeral reaches               | Polacca Wash          | PrHC, FC        | 2                                   |
| Rio Puerco and tributaries, ephemeral reaches | Rio Puerco            | PrHC, FC        | 2                                   |
| Alamo Creek, ephemeral reaches                | Rio Salado            | PrHC, FC        | 2                                   |
| Rio Salado and tributaries, ephemeral reaches | Rio Salado            | PrHC, FC        | 2                                   |
| Bluewater Creek, ephemeral reaches            | Rio San Jose          | PrHC, FC        | 2                                   |
| Rio San Jose ephemeral tributaries            | Rio San Jose          | PrHC, FC        | 2                                   |
| Asaayi Creek - East Fork, ephemeral reaches   | Upper Puerco          | PrHC, FC        | 2                                   |
| Asaayi Creek, ephemeral reaches               | Upper Puerco          | PrHC, FC        | 2                                   |
| Black Creek, ephemeral reaches                | Upper Puerco          | PrHC, FC        | 2                                   |
| Bonito Creek, ephemeral reaches               | Upper Puerco          | PrHC, FC        | 2                                   |
| Tohdildonih Wash, ephemeral reaches           | Upper Puerco          | PrHC, FC        | 2                                   |
| Puerco River, ephemeral reaches               | Upper Puerco & Lower  | Dom, PrHC,      | 2                                   |
|   | Puerco                | FC              |                                     |
| Gallegos Canyon, ephemeral reaches            | Upper San Juan River  | PrHC, FC        | 2                                   |
| Rio Pescado, ephemeral reaches                | Zuni River            | PrHC, FC        | 2                                   |
| Zuni River tributaries, ephemeral reaches     | Zuni River            | PrHC, FC        | 2                                   |

Table 2 Waterbodies gaining designated uses in Table 206.1

| Waterbody   | Cataloging Unit | Uses Added |
|---|-----------------|------------|
| Arroyo Chico and tributaries perennial and        | Arroyo Chico    | PrHC, AgWS |
| intermittent reaches                              |                 |            |
| Torreon Wash, perennial and intermittent reaches  | Arroyo Chico    | PrHC, AgWS |
| Blanco Canyon, perennial and intermittent reaches | Blanco Canyon   | PrHC, AgWS |
| Largo Canyon, perennial and intermittent reaches  | Blanco Canyon   | PrHC, AgWS |

| Canyon Diablo, perennial and intermittent reaches         Canyon Diablo         PrHC, AgWS           Padre Canyon, perennial and intermittent reaches         Canyon Diablo         PrHC, AgWS           Yellow Jacket Canyon, perennial and intermittent reaches         Canyon Diablo         PrHC, AgWS           Youngs Canyon, perennial and intermittent reaches         Chaco         PrHC, AgWS           Brimhall Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Chinde Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Cottonwood Arroyo, perennial and intermittent reaches         Chaco         PrHC, AgWS           Coyote Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Coyote Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Dead Man's Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Indian Creek, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           Red Willow Wash, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           Sheep Springs Wash, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           Balakai Wash, perennial and intermittent reaches         Chinle         PrHC, AgWS           Black Mountain Wash, perennial and intermittent rea  | Waterbody   | Cataloging Unit | Uses Added  |
|--|---|-----------------|-------------|
| Yellow Jacket Canyon, perennial and intermittent reaches         Canyon Diablo         PrHC, AgWS           Youngs Canyon, perennial and intermittent reaches         Canyon Diablo         PrHC, AgWS           Brimhall Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Cottonwood Arroyo, perennial and intermittent reaches         Chaco         PrHC, AgWS           Cottonwood Arroyo, perennial and intermittent reaches         Chaco         PrHC, AgWS           Coyote Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           De Na Zin Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Dead Man's Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Indian Creek, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           Red Willow Wash, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           Sheep Springs Wash, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           Tocito Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Black Mountain Wash, perennial and intermittent reaches         Chinle         PrHC, AgWS           Tocto Wash, perennial and intermittent reaches         Chinle         PrHC, AgWS           Coyote Wash, perennial and intermittent reache  | Canyon Diablo, perennial and intermittent reaches | Canyon Diablo   | PrHC, AgWS  |
| reaches Youngs Canyon, perennial and intermittent reaches Brimhall Wash, perennial and intermittent reaches Chinde Wash, perennial and intermittent reaches Cottonwood Arroyo, perennial and intermittent reaches Coyote Wash, perennial and intermittent reaches Coyote Wash, perennial and intermittent reaches Chaco PrHC, AgWS Chaco PrHC, AgWS Chaco PrHC, ScHC, AgWS De Na Zin Wash, perennial and intermittent reaches Dead Man's Wash, perennial and intermittent reaches Hunter Wash, perennial and intermittent reaches Hould Wash, perennial and intermittent reaches Red Willow Wash, perennial and intermittent reaches Red Willow Wash, perennial and intermittent reaches Tocito Wash, perennial and intermittent reaches Balakai Wash, perennial and intermittent reaches Black Mountain Wash, perennial and intermittent reaches Coytote Wash, perennial and intermittent reaches Coytote Wash, perennial and intermittent reaches Lukachukai Wash, perennial and intermittent reaches Coytote Wash, perennial and intermittent reaches Coytote Wash, perennial and intermittent reaches Corn Creek Wash, perennial and intermittent reaches Cottonwood Wash, perennial and intermittent reaches Dinnebito Wash PrHC, AgWS Dinnebito Wash, perennial and inte | Padre Canyon, perennial and intermittent reaches  | Canyon Diablo   | PrHC, AgWS  |
| Youngs Canyon, perennial and intermittent reaches   PrHC, AgWS     Prick   Prick   Prick   Prick   Prick     Prick   Prick   Prick   Prick     Prick   Prick   Prick   Prick     Prick   Prick   Prick   Prick     Prick   Prick   Prick   Prick   Prick     Prick   Prick   Prick   Prick   Prick   Prick     Prick   | Yellow Jacket Canyon, perennial and intermittent  | Canyon Diablo   | PrHC, AgWS  |
| Reaches   Brimhall Wash, perennial and intermittent reaches   Chaco   PrHC, AgWS   | reaches   | -               |             |
| Brimhall Wash, perennial and intermittent reaches   Chaco   PrHC, AgWS   | Youngs Canyon, perennial and intermittent         | Canyon Diablo   | PrHC, AgWS  |
| Chinde Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Cottonwood Arroyo, perennial and intermittent reaches         Chaco         PrHC, AgWS           Coyote Wash, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           De Na Zin Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Dead Man's Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Hunter Wash, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           Indian Creck, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           Red Willow Wash, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           Sheep Springs Wash, perennial and intermittent reaches         Chaco         PrHC, ScHC, AgWS           Tocito Wash, perennial and intermittent reaches         Chaco         PrHC, AgWS           Black Mountain Wash, perennial and intermittent reaches         Chinle         PrHC, AgWS           Cottonwood Wash, perennial and intermittent reaches         Chinle         PrHC, AgWS           Coyote Wash, perennial and intermittent reaches         Chinle         PrHC, AgWS           Nazlini Wash, perennial and intermittent reaches         Chinle         PrHC, AgWS           Corn Creck Wash, perennial and intermittent reaches  |   |                 |             |
| Cottonwood Arroyo, perennial and intermittent reaches Coyote Wash, perennial and intermittent reaches De Na Zin Wash, perennial and intermittent reaches Dead Man's Wash, perennial and intermittent reaches Hunter Wash, perennial and intermittent reaches  Indian Creek, perennial and intermittent reaches Red Willow Wash, perennial and intermittent reaches Sheep Springs Wash, perennial and intermittent reaches Tocito Wash, perennial and intermittent reaches Balakai Wash, perennial and intermittent reaches Balakai Wash, perennial and intermittent reaches Cottonwood Wash, perennial and intermittent reaches Coyote Wash, perennial and intermittent reache | Brimhall Wash, perennial and intermittent reaches | I .             | PrHC,       |
| Reaches   Coyote Wash, perennial and intermittent reaches   Chaco   PrHC, ScHC, AgWS   | Chinde Wash, perennial and intermittent reaches   | Chaco           | PrHC, AgWS  |
| Coyote Wash, perennial and intermittent reaches  De Na Zin Wash, perennial and intermittent reaches  Dead Man's Wash, perennial and intermittent reaches  Hunter Wash, perennial and intermittent reaches  Chaco  PrHC, ScHC, AgWS  Indian Creek, perennial and intermittent reaches  Indian Creek, perennial and intermittent reaches  Red Willow Wash, perennial and intermittent  reaches  Sheep Springs Wash, perennial and intermittent  reaches  Chaco  PrHC, ScHC, AgWS  PrHC, AgWS  Tocito Wash, perennial and intermittent reaches  Balakai Wash, perennial and intermittent reaches  Black Mountain Wash, perennial and intermittent  reaches  Coyote Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent reaches  Corn-Oraibi  PrHC, AgWS  Cottonwood Wash, perennial and intermittent reaches  Corn-Oraibi  PrHC, AgWS  Cottonwood Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent reaches  Corn-Oraibi  PrHC, AgWS  Cottonwood Wash, perennial and intermittent reaches  Dinnebito Wash  PrHC, AgWS  P | Cottonwood Arroyo, perennial and intermittent     | Chaco           | PrHC, AgWS  |
| De Na Zin Wash, perennial and intermittent reaches Dead Man's Wash, perennial and intermittent reaches Dead Man's Wash, perennial and intermittent reaches Hunter Wash, perennial and intermittent reaches Indian Creek, perennial and intermittent reaches Chaco PrHC, ScHC, AgWS Indian Creek, perennial and intermittent reaches Indian Creek, perennial and intermittent reaches Chaco PrHC, ScHC, AgWS Red Willow Wash, perennial and intermittent PrHC, ScHC, AgWS Red Willow Wash, perennial and intermittent PrHC, ScHC, AgWS Chaco PrHC, ScHC, AgWS Chaco PrHC, ScHC, AgWS Chaco PrHC, AgWS Chinle PrHC, AgWS Chinle PrHC, AgWS Chinle PrHC, AgWS Cottonwood Wash, perennial and intermittent reaches Chinle PrHC, AgWS Lukachukai Wash, perennial and intermittent reaches Chinle PrHC, AgWS Corn Creek, perennial and intermittent reaches Corn Creek Wash, perennial and intermittent reaches Corn Creek Wash, perennial and intermittent reaches Corn Creek Wash, perennial and intermittent reaches Corn-Oraibi PrHC, AgWS Cottonwood Wash, perennial and intermittent reaches Cottonwood Wash, perennial and intermittent reaches Leroux Wash, perennial and intermittent reaches Dinnebito Wash, perennial and intermittent reaches Dinnebito Wash PrHC, AgWS Dinnebito Wash, perennial and intermittent reaches Dinnebito Wash PrHC, AgWS Dinnebito Wash, perennial and intermittent reaches Dinnebito Wash PrHC, AgWS Dinnebito Wash, perennial and intermittent reaches Dinnebito Wash PrHC, AgWS Dinnebito Wash, perennial and intermittent reaches Dinnebito Wash PrHC, AgWS Dinnebito Wash, perennial and intermittent reaches Dinnebito Wash PrHC, AgWS Dinnebito Wash, perennial and intermittent reaches Dinnebito Wash PrHC, AgWS Dinnebito Wash, perennial and intermittent reaches Dinnebito Wash PrHC, AgWS   |   |                 |             |
| De Na Zin Wash, perennial and intermittent reaches  Dead Man's Wash, perennial and intermittent reaches  Hunter Wash, perennial and intermittent reaches  Chaco  PrHC, ScHC, AgWS  Red Willow Wash, perennial and intermittent reaches  Sheep Springs Wash, perennial and intermittent reaches  Sheep Springs Wash, perennial and intermittent reaches  Tocito Wash, perennial and intermittent reaches  Balakai Wash, perennial and intermittent reaches  Black Mountain Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Coinle  PrHC, AgWS  Coin Creek Wash, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent reaches  Corn-Oraibi  PrHC, AgWS  Cottonwood Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent poince wash  PrHC, AgWS  | Coyote Wash, perennial and intermittent reaches   | Chaco           | PrHC, ScHC, |
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| Indian Creek, perennial and intermittent reaches   Chaco   PrHC, ScHC, AgWS  | Hunter Wash, perennial and intermittent reaches   | Chaco           | PrHC, ScHC, |
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| Tocito Wash, perennial and intermittent reaches  Balakai Wash, perennial and intermittent reaches  Chinle  PrHC, AgWS  Black Mountain Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Chinle  PrHC, AgWS  Lukachukai Wash, reaches  Chinle  PrHC,  Nazlini Wash, perennial and intermittent reaches  Chinle  PrHC,  Tyende Creek, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent reaches  Cornibi Wash, perennial and intermittent reaches  Cottonwood Wash  PrHC, AgWS  Cottonwood Wash, perennial and intermittent reaches  Cottonwood Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent reaches  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent reaches  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent reaches  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent reaches   |   | Chaco           |             |
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| Black Mountain Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Chinle  PrHC, AgWS  Lukachukai Wash, reaches  Chinle  PrHC, AgWS  Lukachukai Wash, perennial and intermittent reaches  Chinle  PrHC,  Nazlini Wash, perennial and intermittent reaches  Chinle  PrHC, AgWS  Corn Creek, perennial and intermittent reaches  Corn-Oraibi  PrHC, AgWS  Corn-Oraibi Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent reaches  Leroux Wash, perennial and intermittent reaches  Cottonwood Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent reaches  East Fork Dinnebito Wash, perennial and  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS   |   | I .             |             |
| reaches  Cottonwood Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Chinle  PrHC, AgWS  Lukachukai Wash, reaches  Chinle  PrHC,  Nazlini Wash, perennial and intermittent reaches  Chinle  PrHC,  Tyende Creek, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent  reaches  Oraibi Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent  Cottonwood Wash  PrHC, AgWS  Cottonwood Wash, perennial and intermittent  Cottonwood Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash, perennial and intermittent  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  | Balakai Wash, perennial and intermittent reaches  |                 | PrHC, AgWS  |
| Cottonwood Wash, perennial and intermittent reaches  Coyote Wash, perennial and intermittent reaches  Lukachukai Wash, reaches  Chinle  PrHC, AgWS  Lukachukai Wash, reaches  Chinle  PrHC,  Nazlini Wash, perennial and intermittent reaches  Chinle  PrHC,  PrHC,  PrHC,  Tyende Creek, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent  reaches  Oraibi Wash, perennial and intermittent reaches  Corn-Oraibi  PrHC, AgWS  Cottonwood Wash, perennial and intermittent  reaches  Leroux Wash, perennial and intermittent reaches  Cottonwood Wash  PrHC, AgWS  Cottonwood Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent  reaches  East Fork Dinnebito Wash, perennial and  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  | =   | Chinle          | PrHC, AgWS  |
| reaches  Coyote Wash, perennial and intermittent reaches  Lukachukai Wash, reaches  Chinle  PrHC, AgWS  Lukachukai Wash, reaches  Chinle  PrHC,  Nazlini Wash, perennial and intermittent reaches  Chinle  PrHC,  Tyende Creek, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent  reaches  Oraibi Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent  Cottonwood Wash  PrHC, AgWS  Cottonwood Wash, perennial and intermittent  Cottonwood Wash  PrHC, AgWS  Cottonwood Wash, perennial and intermittent  Cottonwood Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent  PrHC, AgWS  Dinnebito Wash, perennial and intermittent  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash, perennial and  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS   |   |                 |             |
| Coyote Wash, perennial and intermittent reaches  Lukachukai Wash, reaches  Chinle  PrHC,  Nazlini Wash, perennial and intermittent reaches  Chinle  PrHC,  PrHC,  PrHC,  Tyende Creek, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent  reaches  Oraibi Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent  cottonwood Wash  PrHC, AgWS  Cottonwood Wash, perennial and intermittent  Cottonwood Wash  PrHC, AgWS  Cottonwood Wash, perennial and intermittent  Cottonwood Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent  PrHC, AgWS  Dinnebito Wash, perennial and intermittent  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash, perennial and intermittent  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS   | Cottonwood Wash, perennial and intermittent       | Chinle          | PrHC, AgWS  |
| Lukachukai Wash, reachesChinlePrHC,Nazlini Wash, perennial and intermittent reachesChinlePrHC,Tyende Creek, perennial and intermittent reachesChinlePrHC, AgWSCorn Creek Wash, perennial and intermittent reachesCorn-OraibiPrHC, AgWSOraibi Wash, perennial and intermittent reachesCorn-OraibiPrHC, AgWSCottonwood Wash, perennial and intermittent reachesCottonwood WashPrHC, AgWSLeroux Wash, perennial and intermittent reachesCottonwood WashPrHC, AgWSDinnebito Wash, perennial and intermittent reachesDinnebito WashPrHC, AgWSEast Fork Dinnebito Wash, perennial and intermittent reachesDinnebito WashPrHC, AgWS   |   |                 |             |
| Nazlini Wash, perennial and intermittent reaches  Tyende Creek, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent reaches  Oraibi Wash, perennial and intermittent reaches  Corn-Oraibi  PrHC, AgWS  Cottonwood Wash, perennial and intermittent reaches  Cottonwood Wash PrHC, AgWS  Cottonwood Wash PrHC, AgWS  Cottonwood Wash, perennial and intermittent reaches  Leroux Wash, perennial and intermittent Dinnebito Wash PrHC, AgWS  Cottonwood Wash PrHC, AgWS  Dinnebito Wash, perennial and intermittent reaches  East Fork Dinnebito Wash, perennial and Dinnebito Wash PrHC, AgWS  Dinnebito Wash PrHC, AgWS  Dinnebito Wash PrHC, AgWS  | Coyote Wash, perennial and intermittent reaches   | Chinle          | PrHC, AgWS  |
| Tyende Creek, perennial and intermittent reaches  Corn Creek Wash, perennial and intermittent reaches  Oraibi Wash, perennial and intermittent reaches  Corn-Oraibi  PrHC, AgWS  Cottonwood Wash, perennial and intermittent reaches  Cottonwood Wash  PrHC, AgWS  Cottonwood Wash  PrHC, AgWS  Cottonwood Wash  PrHC, AgWS  Cottonwood Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent reaches  East Fork Dinnebito Wash, perennial and intermital and intermittent reaches  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  | Lukachukai Wash, reaches                          | Chinle          | PrHC,       |
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| Oraibi Wash, perennial and intermittent reaches  Cottonwood Wash, perennial and intermittent reaches  Leroux Wash, perennial and intermittent reaches  Dinnebito Wash, perennial and intermittent perences  East Fork Dinnebito Wash, perennial and intermittent reaches  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS   | Corn Creek Wash, perennial and intermittent       | Corn-Oraibi     | PrHC, AgWS  |
| Cottonwood Wash, perennial and intermittent reaches  Leroux Wash, perennial and intermittent reaches  Cottonwood Wash  PrHC, AgWS  Cottonwood Wash  PrHC, AgWS  Dinnebito Wash, perennial and intermittent reaches  East Fork Dinnebito Wash, perennial and intermittent reaches  Dinnebito Wash  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS  PrHC, AgWS   | reaches   |                 |             |
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| Leroux Wash, perennial and intermittent reachesCottonwood WashPrHC, AgWSDinnebito Wash, perennial and intermittent reachesDinnebito WashPrHC, AgWSEast Fork Dinnebito Wash, perennial and intermittent reachesDinnebito WashPrHC, AgWS   | Cottonwood Wash, perennial and intermittent       | Cottonwood Wash |             |
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| East Fork Dinnebito Wash, perennial and intermittent reaches  Dinnebito Wash  PrHC, AgWS   | Dinnebito Wash, perennial and intermittent        | Dinnebito Wash  |             |
| intermittent reaches   | reaches   |                 |             |
| intermittent reaches   | East Fork Dinnebito Wash, perennial and           | Dinnebito Wash  | PrHC, AgWS  |
| Laddita Wash parannial and intermittent reaches Laddita Wash DallC AcWS  |   |                 |             |
| Jeddilo wash, perenniai and intermittent reaches   Jeddilo wash   PTHC, Agws   | Jeddito Wash, perennial and intermittent reaches  | Jeddito Wash    | PrHC, AgWS  |

| Waterbody   | Cataloging Unit                              | Uses Added            |
|---|--|-----------------------|
| Shinumo Wash, perennial and intermittent reaches  | Lower Colorado- Marble                       | PrHC, AgWS            |
|   | Canyon                                       |                       |
| Tanner Wash, perennial and intermittent reaches   | Lower Colorado- Marble                       | PrHC, AgWS            |
|   | Canyon                                       |                       |
| Tatahatso Wash, perennial and intermittent  | Lower Colorado- Marble                       | PrHC, AgWS            |
| reaches   | Canyon                                       | D HG A HIG            |
| Tiger Wash, perennial and intermittent reaches  | Lower Colorado- Marble                       | PrHC, AgWS            |
| Codes Week assessed and intermediate mockey   | Canyon                                       | Dalic A alve          |
| Cedar Wash, perennial and intermittent reaches  | Lower Little Colorado  Lower Little Colorado | PrHC, AgWS            |
| Lee Canyon, perennial and intermittent reaches  Tappan Wash, perennial and intermittent reaches | Lower Little Colorado  Lower Little Colorado | PrHC, AgWS            |
| Desert Creek, perennial and intermittent reaches  | Lower San Juan Four Corners                  | PrHC, AgWS PrHC, AgWS |
| Gothic Creek, perennial and intermittent reaches  | Lower San Juan Four Corners                  | PrHC, AgWS            |
| McCraken Canyon, perennial and intermittent   | Lower San Juan Four Corners                  | PrHC, AgWS            |
| reaches   | Lower San Juan Four Corners                  | Tille, Agws           |
| Toh Dahstini Wash perennial and intermittent  | Lower San Juan Four Corners                  | PrHC,                 |
| reaches   |  | ,                     |
| Gypsum Creek, perennial and intermittent reaches  | Lower San Juan River                         | PrHC, AgWS            |
| Nokai Canyon, perennial and intermittent reaches  | Lower San Juan River                         | PrHC, AgWS            |
| Oljeto Wash, perennial and intermittent reaches   | Lower San Juan River                         | PrHC, AgWS            |
| Mancos River, perennial and intermittent reaches  | Mancos River                                 | PrHC, AgWS            |
| Cove Wash, perennial and intermittent reaches   | Middle San Juan River                        | PrHC, AgWS            |
| Eagle Nest Arroyo, perennial and intermittent   | Middle San Juan River                        | PrHC,                 |
| reaches   |  |                       |
| Pine Wash, perennial and intermittent reaches   | Middle San Juan River                        | PrHC, AgWS            |
| Red Wash, perennial and intermittent reaches  | Middle San Juan River                        | PrHC, AgWS            |
| Salt Creek Wash, perennial and intermittent   | Middle San Juan River                        | PrHC, AgWS            |
| reaches   | ) (111 C 1 D:                                | D HG A MG             |
| Standing Redrock Creek, perennial and   | Middle San Juan River                        | PrHC, AgWS            |
| intermittent reaches  | Magalagi Wash                                | Dalic A alve          |
| Begashibito Wash, perennial and intermittent reaches  | Moenkopi Wash                                | PrHC, AgWS            |
| Hamblin Wash, perennial and intermittent reaches  | Moenkopi Wash                                | PrHC, AgWS            |
| Moenkopi Wash, perennial and intermittent   | Moenkopi Wash                                | PrHC, Agws            |
| reaches   | Wiochkopi wash                               | THIC,                 |
| Shonto Wash, perennial and intermittent reaches   | Moenkopi Wash                                | PrHC, AgWS            |
| Unnamed perennial and intermittent tributaries  | North Plains                                 | PrHC, AgWS            |
| and playas  | T COTAIT T TAINS                             |                       |
| Pollaca Wash, perennial and intermittent reaches  | Polacca Wash                                 | PrHC, AgWS            |
| Rio Puerco and tributaries perennial and  | Rio Puerco                                   | PrHC, AgWS            |
| intermittent reaches  |  |                       |
| Rio Salado and tributaries perennial and  | Rio Salado                                   | PrHC, AgWS            |
| intermittent reaches  |  |                       |
| Rio San Jose perennial and intermittent tributaries   | Rio San Jose                                 | PrHC, AgWS            |
| Tohdildonih Wash, perennial and intermittent  | Upper Puerco                                 | PrHC,                 |
| reaches   |  |                       |

| Waterbody  | Cataloging Unit             | Uses Added |
|--|-----------------------------|------------|
| Puerco River, perennial and intermittent reaches   | Upper Puerco & Lower Puerco | PrHC, AgWS |
| Zuni River tributaries, perennial and intermittent | Zuni River                  | PrHC, AgWS |
| reaches  |                             |            |
| Arroyo Chico and tributaries, ephemeral reaches    | Arroyo Chico                | AgWS       |
| Blanco Canyon, ephemeral reaches                   | Blanco Canyon               | AgWS       |
| Largo Canyon, ephemeral reaches                    | Blanco Canyon               | AgWS       |
| Canyon Diablo, ephemeral reaches                   | Canyon Diablo               | AgWS       |
| Padre Canyon, ephemeral reaches                    | Canyon Diablo               | AgWS       |
| San Francisco Wash, ephemeral reaches              | Canyon Diablo               | AgWS       |
| San Francisco Wash, perennial and intermittent     | Canyon Diablo               | AgWS       |
| reaches  |                             |            |
| Yellow Jacket Canyon, ephemeral reaches            | Canyon Diablo               | AgWS       |
| Youngs Canyon, ephemeral reaches                   | Canyon Diablo               | AgWS       |
| Berland Lake (cold water)                          | Chaco                       | AgWS       |
| Brimhall Wash, ephemeral reaches                   | Chaco                       | AgWS       |
| Chaco River/Chaco Wash, ephemeral reaches          | Chaco                       | AgWS       |
| Chinde Wash, ephemeral reaches                     | Chaco                       | AgWS       |
| Chaco River/Chaco Wash, perennial and              | Chaco                       | AgWS       |
| intermittent reaches                               |                             |            |
| Cottonwood Arroyo, ephemeral reaches               | Chaco                       | AgWS       |
| Chuska Lake (cold water)                           | Chaco                       | AgWS       |
| De Na Zin Wash, ephemeral reaches                  | Chaco                       | AgWS       |
| Dead Man's Wash, ephemeral reaches                 | Chaco                       | AgWS       |
| Morgan Lake  | Chaco                       | AgWS       |
| Tocito Wash, ephemeral reaches                     | Chaco                       | AgWS       |
| Whiskey Lake (cold water)                          | Chaco                       | AgWS       |
| Balakai Wash, ephemeral reaches                    | Chinle                      | AgWS       |
| Black Mountain Wash, ephemeral reaches             | Chinle                      | AgWS       |
| Canyon de Chelly Wash, ephemeral reaches           | Chinle                      | AgWS       |
| Aspen Lake (cold water)                            | Chinle                      | AgWS       |
| Cottonwood Wash, ephemeral reaches                 | Chinle                      | AgWS       |
| Coyote Wash, ephemeral reaches                     | Chinle                      | AgWS       |
| Laguna Creek, ephemeral reaches                    | Chinle                      | AgWS       |
| Canyon de Chelly Wash, perennial and               | Chinle                      | AgWS       |
| intermittent reaches                               |                             |            |
| Little Whiskey Creek, ephemeral reaches            | Chinle                      | AgWS       |
| Palisade Creek, ephemeral reaches                  | Chinle                      | AgWS       |
| Tyende Creek, ephemeral reaches                    | Chinle                      | AgWS       |
| Laguna Creek, perennial and intermittent reaches   | Chinle                      | AgWS       |
| Little Whiskey Creek, perennial and intermittent   | Chinle                      | AgWS       |
| reaches  |                             |            |
| Palisade Creek, perennial and intermittent reaches | Chinle                      | AgWS       |
| Corn Creek Wash, ephemeral reaches                 | Corn-Oraibi                 | AgWS       |
| Oraibi Wash, ephemeral reaches                     | Corn-Oraibi                 | AgWS       |
| Cottonwood Wash, ephemeral reaches                 | Cottonwood Wash             | AgWS       |
| Ganado Lake  | Cottonwood Wash             | AgWS       |

| Waterbody   | Cataloging Unit              | Uses Added |
|---|------------------------------|------------|
| Dinnebito Wash, ephemeral reaches                   | Dinnebito Wash               | AgWS       |
| East Fork Dinnebito Wash, ephemeral reaches         | Dinnebito Wash               | AgWS       |
| Jeddito Wash, ephemeral reaches                     | Jeddito Wash                 | AgWS       |
| Leroux Wash, ephemeral reaches                      | Leroux Wash                  | AgWS       |
| Antelope Lake (cold water)                          | Leroux Wash                  | AgWS       |
| Shinumo Wash, ephemeral reaches                     | Lower Colorado- Marble       | AgWS       |
| -   | Canyon                       | _          |
| Tanner Wash, ephemeral reaches                      | Lower Colorado- Marble       | AgWS       |
|   | Canyon                       |            |
| Tatahatso Wash, ephemeral reaches                   | Lower Colorado- Marble       | AgWS       |
|   | Canyon                       |            |
| Tiger Wash, ephemeral reaches                       | Lower Colorado- Marble       | AgWS       |
|   | Canyon                       |            |
| Colorado River, cold water reaches                  | Lower Colorado- Marble       | AgWS       |
|   | Canyon and Lower Lake Powell |            |
| Colorado River, warm water reaches                  | Lower Colorado- Marble       | AgWS       |
|   | Canyon and Lower Lake Powell |            |
| Antelope Creek, ephemeral reaches                   | Lower Lake Powell            | AgWS       |
| Aztec Creek, ephemeral reaches                      | Lower Lake Powell            | AgWS       |
| Kaibito Creek, ephemeral reaches                    | Lower Lake Powell            | AgWS       |
| Navajo Creek, ephemeral reaches                     | Lower Lake Powell            | AgWS       |
| Antelope Creek, perennial and intermittent reaches  | Lower Lake Powell            | AgWS       |
| Aztec Creek, perennial and intermittent reaches     | Lower Lake Powell            | AgWS       |
| Kaibito Creek, perennial and intermittent reaches   | Lower Lake Powell            | AgWS       |
| Navajo Creek, perennial and intermittent reaches    | Lower Lake Powell            | AgWS       |
| Cedar Wash, ephemeral reaches                       | Lower Little Colorado        | AgWS       |
| Deadman Wash, ephemeral reaches                     | Lower Little Colorado        | AgWS       |
| Lee Canyon, ephemeral reaches                       | Lower Little Colorado        | AgWS       |
| Little Colorado River, ephemeral reaches            | Lower Little Colorado        | AgWS       |
| Tappan Wash, ephemeral reaches                      | Lower Little Colorado        | AgWS       |
| Deadman Wash, perennial and intermittent reaches    | Lower Little Colorado        | AgWS       |
| Little Colorado River, mouth to origin of perennial | Lower Little Colorado        | AgWS       |
| flow (between mouth of Lee Canyon and USGS          |                              |            |
| Gaging Station)                                     |                              |            |
| Little Colorado River, perennial and intermittent   | Lower Little Colorado        | AgWS       |
| reaches   |                              |            |
| Desert Creek, ephemeral reaches                     | Lower San Juan Four Corners  | AgWS       |
| Ephemeral tributaries to the San Juan River         | Lower San Juan Four Corners  | AgWS       |
| (except as listed)                                  |                              | A TYPE     |
| Gothic Creek, ephemeral reaches                     | Lower San Juan Four Corners  | AgWS       |
| McCraken Canyon, ephemeral reaches                  | Lower San Juan Four Corners  | AgWS       |
| Teec Nos Pos Wash, ephemeral reaches                | Lower San Juan Four Corners  | AgWS       |
| Perennial and intermittent tributaries to the San   | Lower San Juan Four Corners  | AgWS       |
| Juan River (except as listed)                       | I C I D.                     | A MIG      |
| Gypsum Creek, , ephemeral reaches                   | Lower San Juan River         | AgWS       |
| Nokai Canyon, ephemeral reaches                     | Lower San Juan River         | AgWS       |

| Waterbody  | Cataloging Unit             | Uses Added |
|--|-----------------------------|------------|
| Oljeto Wash, ephemeral reaches                     | Lower San Juan River        | AgWS       |
| Mancos River, ephemeral reaches                    | Mancos River                | AgWS       |
| Cove Wash, ephemeral reaches                       | Middle San Juan River       | AgWS       |
| Ojo Amarillo, ephemeral reaches                    | Middle San Juan River       | AgWS       |
| Pine Wash, ephemeral reaches                       | Middle San Juan River       | AgWS       |
| Red Wash, ephemeral reaches                        | Middle San Juan River       | AgWS       |
| Salt Creek Wash, ephemeral reaches                 | Middle San Juan River       | AgWS       |
| Standing Redrock Creek, ephemeral reaches          | Middle San Juan River       | AgWS       |
| Ojo Amarillo, perennial and intermittent reaches   | Middle San Juan River       | AgWS       |
| Begashibito Wash, ephemeral reaches                | Moenkopi Wash               | AgWS       |
| Hamblin Wash, ephemeral reaches                    | Moenkopi Wash               | AgWS       |
| Shonto Wash, ephemeral reaches                     | Moenkopi Wash               | AgWS       |
| Cow Springs Lake                                   | Moenkopi Wash               | AgWS       |
| White Mesa Lake                                    | Moenkopi Wash               | AgWS       |
| Unnamed ephemeral tributaries and playas           | North Plains                | AgWS       |
| Polacca Wash, ephemeral reaches                    | Polacca Wash                | AgWS       |
| Rio Puerco and tributaries, ephemeral reaches      | Rio Puerco                  | AgWS       |
| Alamo Creek, ephemeral reaches                     | Rio Salado                  | AgWS       |
| Rio Salado and tributaries, ephemeral reaches      | Rio Salado                  | AgWS       |
| Alamo Creek, perennial and intermittent reaches    | Rio Salado                  | AgWS       |
| Bluewater Creek, ephemeral reaches                 | Rio San Jose                | AgWS       |
| Rio San Jose ephemeral tributaries                 | Rio San Jose                | AgWS       |
| Black Creek, ephemeral reaches                     | Upper Puerco                | AgWS       |
| Bonito Creek, ephemeral reaches                    | Upper Puerco                | AgWS       |
| Black Creek, perennial and intermittent reaches    | Upper Puerco                | AgWS       |
| Bonito Creek, perennial and intermittent reaches   | Upper Puerco                | AgWS       |
| Red Lake   | Upper Puerco                | AgWS       |
| Trout Lake (cold water)                            | Upper Puerco                | AgWS       |
| Puerco River, ephemeral reaches                    | Upper Puerco & Lower Puerco | AgWS       |
| Gallegos Canyon, ephemeral reaches                 | Upper San Juan River        | AgWS       |
| Gallegos Canyon, perennial and intermittent        | Upper San Juan River        | AgWS       |
| reaches  |                             |            |
| Zuni River tributaries, ephemeral reaches          | Zuni River                  | AgWS       |
| Coyote Wash, ephemeral reaches                     | Chaco                       | ScHC, AgWS |
| Hunter Wash, ephemeral reaches                     | Chaco                       | ScHC, AgWS |
| Indian Creek, ephemeral reaches                    | Chaco                       | ScHC, AgWS |
| Sheep Springs Wash, ephemeral reaches              | Chaco                       | ScHC, AgWS |
| Palisade Creek, perennial and intermittent reaches | Chinle                      |            |

Table 3 New Waterbodies and their associated designated uses added to Table 206.1

| Waterbody             | Cataloguing unit | DOM | PrHC | ScHC | AgWS | FC | A&W | LW |
|-----------------------|------------------|-----|------|------|------|----|-----|----|
| Captain Tom Reservoir | Chaco            |     | PrHC | ScHC | AgWS | FC | A&W | LW |

| Waterbody   | Cataloguing unit                       | DOM | PrHC | ScHC | AgWS | FC | A&W | LW |
|---|--|-----|------|------|------|----|-----|----|
| Toadlena Fish Hatchery unnamed ephemeral tributaries                  | Chaco                                  |     |      | ScHC | AgWS |    | A&W | LW |
| Toadlena Fish Hatchery unnamed intermittent and perennial tributaries | Chaco                                  |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| Alcove Canyon, ephemeral reaches                                      | Chinle                                 |     |      | ScHC | AgWS |    | A&W | LW |
| Alcove Canyon, perennial and intermittent reaches                     | Chinle                                 |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| Bubbling Springs Canyon, ephemeral reaches                            | Chinle                                 |     |      | ScHC | AgWS |    | A&W | LW |
| Bubbling Springs Canyon,<br>perennial and intermittent<br>reaches     | Chinle                                 |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| Dowozhiebito Canyon,<br>ephemeral reaches                             | Chinle                                 |     |      | ScHC | AgWS |    | A&W | LW |
| Dowozhiebito Canyon,<br>perennial and intermittent<br>reaches         | Chinle                                 |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| Long Canyon, ephemeral reaches  | Chinle                                 |     |      | ScHC | AgWS |    | A&W | LW |
| Long Canyon, perennial and intermittent reaches                       | Chinle                                 |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| White Rock Wash, ephemeral reaches                                    | Chinle                                 |     |      | ScHC | AgWS |    | A&W | LW |
| White Rock Wash, perennial and intermittent reaches                   | Chinle                                 |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| Black Soil Wash, ephemeral reaches                                    | Cottonwood<br>Wash                     |     |      | ScHC | AgWS |    | A&W | LW |
| Black Soil Wash, perennial and intermittent reaches                   | Cottonwood<br>Wash                     |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| Scattered Willow Wash, ephemeral reaches                              | Cottonwood<br>Wash                     |     |      | ScHC | AgWS |    | A&W | LW |
| Scattered Willow Wash,<br>perennial and intermittent<br>reaches       | Cottonwood<br>Wash                     |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| Willow Creek, ephemeral reaches                                       | Cottonwood<br>Wash                     |     |      | ScHC | AgWS |    | A&W | LW |
| Willow Creek, perennial and intermittent reaches                      | Cottonwood<br>Wash                     |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| Big Canyon, ephemeral reaches   | Lower<br>Colorado-<br>Marble<br>Canyon |     |      | ScHC | AgWS |    | A&W | LW |
| Big Canyon, perennial and intermittent reaches                        | Lower<br>Colorado-                     |     | PrHC | ScHC | AgWS | FC | A&W | LW |

| Waterbody   | Cataloguing unit         | DOM | PrHC  | ScHC  | AgWS    | FC | A&W     | LW    |
|---|--------------------------|-----|-------|-------|---------|----|---------|-------|
|   | Marble                   |     |       |       |         |    |         |       |
|   | Canyon                   |     |       |       |         |    |         |       |
| Salt Trail Canyon, ephemeral                      | Lower                    |     |       | ScHC  | AgWS    |    | A&W     | LW    |
| reaches   | Colorado-                |     |       |       |         |    |         |       |
|   | Marble                   |     |       |       |         |    |         |       |
|   | Canyon                   |     |       |       |         |    |         |       |
| Salt Trail Canyon, perennial                      | Lower                    |     | PrHC  | ScHC  | AgWS    | FC | A&W     | LW    |
| and intermittent reaches                          | Colorado-                |     |       |       |         |    |         |       |
|   | Marble                   |     |       |       |         |    |         |       |
|   | Canyon                   |     |       |       |         |    |         |       |
| Cha Canyon - ephemeral                            | Lower San                |     |       | ScHC  | AgWS    |    | A&W     | LW    |
| reaches   | Juan River               |     |       |       |         |    |         |       |
| Cha Canyon - intermittent                         | Lower San                |     | PrHC  | ScHC  | AgWS    | FC | A&W     | LW    |
| reaches   | Juan River               |     |       |       |         |    |         |       |
| Cha Canyon - perennial                            | Lower San                | Dom | PrHC  | ScHC  | AgWS    | FC | A&W     | LW    |
| reaches   | Juan River               |     |       |       |         |    |         |       |
| Ephemeral tributaries to the                      | Lower San                |     |       | ScHC  | AgWS    |    | A&W     | LW    |
| San Juan River (except as                         | Juan River               |     |       |       |         |    |         |       |
| listed)   |                          |     |       |       |         |    |         |       |
| Perennial and intermittent                        | Lower San                |     | PrHC  | ScHC  | AgWS    | FC | A&W     | LW    |
| tributaries to the San Juan                       | Juan River               |     |       |       |         |    |         |       |
| River (except as listed)                          | T G                      |     |       | G HG  | A 1110  |    | 1 0 TT  | T 117 |
| Piute Canyon, ephemeral                           | Lower San                |     |       | ScHC  | AgWS    |    | A&W     | LW    |
| reaches   | Juan River               |     | DIIC  | C IIC | A TUG   | EC | A 0 XX7 | T 337 |
| Piute Canyon, perennial and                       | Lower San                |     | PrHC  | ScHC  | AgWS    | FC | A&W     | LW    |
| intermittent reaches                              | Juan River               | D   | DIIC  | CIIC  | A VVC   | FC | A 0 XX7 | T 337 |
| San Juan River                                    | Lower San                | Dom | PrHC  | ScHC  | AgWS    | FC | A&W     | LW    |
| Little Colomade Divier                            | Juan River Middle Little |     |       | CallC | A ~WC   |    | A 0-117 | 1 337 |
| Little Colorado River,                            | Colorado                 |     |       | ScHC  | AgWS    |    | A&W     | LW    |
| ephemeral reaches                                 | Middle Little            |     | PrHC  | ScHC  | A ~WC   | FC | A&W     | LW    |
| Little Colorado River, perennial and intermittent | Colorado                 |     | ППС   | SCHC  | AgWS    | rC | A& W    | LW    |
| reaches   | Colorado                 |     |       |       |         |    |         |       |
| Ephemeral tributaries to the                      | Middle San               |     |       | ScHC  | AgWS    |    | A&W     | LW    |
| San Juan River (except as                         | Juan River               |     |       | Scric | Agws    |    | Activ   | LW    |
| listed)   | Judii idivei             |     |       |       |         |    |         |       |
| Perennial and intermittent                        | Middle San               |     | PrHC  | ScHC  | AgWS    | FC | A&W     | LW    |
| tributaries to the San Juan                       | Juan River               |     | 11110 |       | 118,115 |    | 1100 // | 2     |
| River (except as listed)                          |                          |     |       |       |         |    |         |       |
| San Juan River                                    | Middle San               | Dom | PrHC  | ScHC  | AgWS    | FC | A&W     | LW    |
|   | Juan River               |     |       |       |         |    |         |       |
| Ephemeral tributaries to the                      | Upper San                |     |       | ScHC  | AgWS    |    | A&W     | LW    |
| San Juan River (except as                         | Juan River               |     |       |       |         |    |         |       |
| listed)   |                          |     |       |       |         |    |         |       |

| Waterbody                   | Cataloguing | DOM | PrHC | ScHC | AgWS | FC | A&W | LW |
|-----------------------------|-------------|-----|------|------|------|----|-----|----|
|                             | unit        |     |      |      |      |    |     |    |
| Perennial and intermittent  | Upper San   |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| tributaries to the San Juan | Juan River  |     |      |      |      |    |     |    |
| River (except as listed)    |             |     |      |      |      |    |     |    |
| San Juan River              | Upper San   | Dom | PrHC | ScHC | AgWS | FC | A&W | LW |
|                             | Juan River  |     |      |      |      |    |     |    |
| West Fork Gallegos Canyon,  | Upper San   |     |      | ScHC | AgWS |    | A&W | LW |
| ephemeral reaches           | Juan River  |     |      |      |      |    |     |    |
| West Fork Gallegos Canyon,  | Upper San   |     | PrHC | ScHC | AgWS | FC | A&W | LW |
| perennial and intermittent  | Juan River  |     |      |      | _    |    |     |    |
| reaches                     |             |     |      |      |      |    |     |    |

EPA finds that these revisions are consistent with 40 C.F.R. § 131.10 and approves these updates.

# § 207. NUMERIC SURFACE WATER QUALITY STANDARDS

### **D.** Salinity

This section is updated to implement the 2015 Colorado River Basin Salinity Control Forum standards. EPA finds this amendment to the more current salinity WQS and plan to be protective of the Colorado River's designated uses, consistent with 40 C.F.R. § 131.10.

# I. Mercury and Methylmercury

NNEPA has adopted site-specific chronic criteria of 0.001 ug/L as dissolved component and site-specific methylmercury values of 0.00011 ug/l for the following water bodies: Colorado River and perennial tributaries, Navajo Creek (perennial reaches), Little Colorado River (perennial reaches), Cow Springs Lake, White Mesa Lake, Asaayi Lake, Asaayi Creek (perennial reaches), Asaayi Creek (East Fork, perennial reaches), Red Lake, Trout Lake, Zuni River (perennial tributaries), Bluewater Creek (perennial reaches), San Juan River and perennial tributaries, Cutter Dam Reservoir, Chuska Lake, Morgan Lake, Whiskey Lake, Chinle Creek/Chinle Wash (perennial reaches), Nazlini Wash (perennial reaches), Whiskey Creek (perennial reaches), Wheatfields Lake, Canyon del Muerto Wash (perennial reaches), Tsaile Lake, Tsaile Creek (perennial reaches), Wheatfields Creek (perennial reaches), Aspen Lake, Round Rock Lake and Mancos River (perennial reaches). EPA finds these amendments to be protective of the designated uses for these waterbodies, consistent with 40 C.F.R. § 131.10.

# **Table 207.1. Numeric Surface Water Quality Standards**

# I. AQUATIC LIFE

Acute and Chronic Criteria. NNEPA revised or added 10 aquatic life-use related numeric criteria (Table 4) and developed site-specific methylmercury numeric criteria for specific waterbodies. NNEPA standards for endrin, heptachlor and heptachlor epoxide are the same as EPA's published compilation of national recommended water quality criteria; these criteria are published as required by CWA § 304(a) (EPA 304(a) recommendations). The NNEPA standard for total endosulfan is within rounding error of the EPA published criteria. Bolded items in Table 4 below are approved by EPA pursuant to CWA § 303(c) and 40 C.F.R. Part 131.

Table 4 New Navajo Nation Water Quality Standards.

| Parameter          | Navajo Nation<br>Acute Standard<br>(ug//) | EPA Acute<br>Criteria<br>(ug/l) | Navajo Nation<br>Chronic<br>Standard (ug/l) | EPA Chronic<br>Criteria<br>(ug/l) |
|--------------------|---|---------------------------------|---|-----------------------------------|
| Ammonia            | *   | *                               | *   | *                                 |
| Alachlor           | 2500                                      | NA                              | 170   | NA                                |
| Endosulfan (Total) | 0.2                                       | 0.022                           | 0.06  | 0.056                             |
| Endrin             | 0.086                                     | 0.086                           | 0.036                                       | 0.036                             |
| Endrin aldehyde    | 0.086                                     | NA                              | 0.036                                       | NA                                |
| Guthion            | NCNS                                      | NA                              | 0.01  | NA                                |
| Heptachlor         | 0.52                                      | 0.52                            | 0.0038                                      | 0.0038                            |
| Heptachlor epoxide | 0.52                                      | 0.52                            | 0.0038                                      | 0.038                             |
| Hexachlorobenzene  | 6.0                                       | NA                              | 3.7   | NA                                |
| Mercury (Hg)       | 2.4 (D)                                   | 1.4                             | 0.012 (D)                                   | 0.77                              |

<sup>\*</sup> Ammonia criteria are based on equations in EPA 2013 freshwater ammonia criteria

NNEPA has adopted EPA 304(a) recommendations for ammonia, endosulfan, endrin, guthion (chronic), heptachlor and heptachlor epoxide. NNEPA developed new aquatic life criteria for alachlor, cadmium, endrin aldehyde, hexachlorobenzene, mercury and site-specific standards for methylmercury. The NNEPA criteria for alachlor, endrin aldehyde, guthion, and hexachlorobenzene are protective of aquatic life. EPA finds that NNEPA's adoption of these criteria adds a layer of protection that is beyond the EPA's 304(a) recommendations. EPA notes these criteria are equivalent to criteria EPA previously approved in 2009/2010 in neighboring Arizona.

<u>Ammonia</u>. NNEPA adopted the EPA's recommended 2013 ammonia criteria for its waters that are protective of salmonids and unionid mussels when present. Tables 207.19, 207.20, and 207.21 are consistent with the EPA 304(a) recommendations.

Mercury. NNEPA clarified its previously approved acute and chronic mercury criteria of 2.4 and 0.012 ug/l which are based on the 1984 EPA 304(a) recommendations should be based on dissolved form of mercury. The 1995 304(a) recommendations are lower but are based on inorganic mercury ion. A Wildlife Criteria (WC) value for mercury was estimated, in the 1984 recommendations, as the ratio of the RfD to an estimated mercury consumption rate in fish (only) referenced to water concentration using a bioaccumulation factor (BAF). A BAF is the ratio of the mercury concentration in fish to its concentration in water. The WC for bald eagles was calculated using the following equation and the BAF from methylmercury measured in water to the concentration of total mercury in re-integrated fish tissue (on a dry weight basis):

WC bald eagle = 
$$D + (FF \times BAF)$$

Where:

WC = Wildlife Criteria for bald eagle (pg/L)

TD = Tested Dose (mg/kg-bw/day) (i.e., 0.064 mg/kg-bw/day)

UF = Uncertainty Factor (unitless) (i.e., 0.33)

BW = Body Weight (*i.e.*, 5.25 kg) D = Drinking water intake (L/d)

FF = Fraction of diet that is fish (all other sources assumed to be negligible)
BAF = Bioaccumulation Factor (total mercury in fish/methylmercury in water)

EPA finds this is consistent with EPA's 304(a) recommendation.

#### II. HUMAN HEALTH

<u>Fish Consumption criteria</u>. For the fish consumption designated uses, NNEPA revised or added criteria for 65 pollutants. 63 of the 65 are equal to EPA's 2015 human health updates to the 304(a) recommendations. EPA does not have recommended criteria for Total Endosulfan and Glyphosate. As described below, EPA is approving all 65 criteria.

Table 5 Navajo Nations revised Fish Consumption Criteria compared to EPA Human Health Organism only 2015 criteria update

| Parameter  | CAS<br>Number | NN FC      | EPA 2015 updates<br>Organism Only |
|--|---------------|------------|-----------------------------------|
| 1,1,1-Trichloroethane                                | 71556         | 200000     | 200000                            |
| 1,1,2,2-Tetrachloroethane                            | 79345         | 3          | 3                                 |
| 1,1,2-Trichloroethane                                | 79005         | 8.90       | 8.90                              |
| 1,2,4,5-Tetrachlorobenzene                           | 95943         | 0.03       | 0.03                              |
| 1,2,4-Trichlorobenzene                               | 120821        | 0.076      | 0.076                             |
| 1,2-trans-Dichloroethene                             | 156605        | 4000       | 4000                              |
| 1,3-Dichlorobenzene                                  | 541731        | 10         | 10                                |
| 1,3-Dichloropropene                                  | 542756        | 12         | 12                                |
| 2-(2,4,5-Trichlorophenoxy) propnonic acid (2,4,5-TP) | 93721         | 400        | 400                               |
| 2,4,5-Trichlorophenol                                | 95954         | 600        | 600                               |
| 2,4-Dichlorophenol                                   | 120832        | 60         | 60                                |
| 2,4-Dichlorphenoxyacetic acid (2,4-D)                | 94757         | 12000      | 12000                             |
| 2,4-Dimethyl phenol                                  | 105679        | 171        | 3000                              |
| 2,4-Dinitrophenol                                    | 51285         | 300        | 300                               |
| 2,4-Dinitrotoluene                                   | 121142        | 1.70       | 1.70                              |
| 2-Chloronaphthalene                                  | 91587         | 1000       | 1000                              |
| 2-methyl-4,6-Dinitrophenol                           | 534521        | 30         | 30                                |
| 3-methyl 4-Chlorophenol                              | 59507         | 2000       | 2000                              |
| Acenaphthene   | 83329         | 90         | 90                                |
| Alpha-Hexacholorcyclohexane (HCH)                    | 319846        | 0.00039    | 0.00039                           |
| Aldrin   | 309002        | 0.00000077 | 0.00000077                        |
| Benzene  | 71432         | 16-58      | 16-58                             |
| Benzo(a)anthracene                                   | 56553         | 0.0013     | 0.0013                            |
| Benzo(a)pyrene                                       | 50328         | 0.00013    | 0.00013                           |

| Parameter                                      | CAS<br>Number | NN FC     | EPA 2015 updates<br>Organism Only |
|--|---------------|-----------|-----------------------------------|
| Benzo(b)fluoranthene                           | 205992        | 0.0013    | 0.0013                            |
| beta-Hexacholorcyclohexane (HCH)               | 319857        | 0.014     | 0.014                             |
| Bis(2-chloroisopropyl)ether                    | 108601        | 3441      | 4000                              |
| Bis(2-ethylhexyl)phthalate                     | 117817        | 0.37      | 0.37                              |
| Bis(Chloromethyl) ether                        | 542881        | 0.017     | 0.017                             |
| Bromoform                                      | 75252         | 120       | 120                               |
| Butyl benzyl phthalate                         | 85687         | 0.10      | 0.10                              |
| Chlordane                                      | 57749         | 0.00032   | 0.00032                           |
| Chlorobenzene                                  | 108907        | 800       | 800                               |
| Dibenzo(a,h)anthracene                         | 53703         | 0.00013   | 0.00013                           |
| Dibutyl phthalate                              | 84742         | 30        | 30                                |
| Dieldrin                                       | 60571         | 0.0000012 | 0.0000012                         |
| Diethyl phthalate                              | 84662         | 600       | 600                               |
| Dimethyl phthalate                             | 131113        | 2000      | 2000                              |
| Dinitrophenols                                 | 25550587      | 1000      | 1000                              |
| Endosulfan (Total)                             | 115297        | 20        | NA                                |
| Endrin   | 72208         | 0.03      | 0.03                              |
| Ethylbenzene                                   | 100414        | 130       | 130                               |
| Fluoranthene                                   | 206440        | 20        | 20                                |
| Fluorene                                       | 86737         | 70        | 70                                |
| gamma-Hexacholorcyclohexane (HCH)              | 58899         | 4.4       | 4.4                               |
| Glyphosate                                     | 1071836       | 266667    | NA                                |
| Heptachlor                                     | 76448         | 0.0000059 | 0.0000059                         |
| Heptachlor epoxide                             | 1024573       | 0.000032  | 0.000032                          |
| Hexachlorobenzene                              | 118741        | 0.000079  | 0.000079                          |
| Hexachlorobutadiene                            | 87683         | 0.01      | 0.01                              |
| Hexachlorocyclohexane (HCH)-Technical          | 608731        | 0.01      | 0.01                              |
| Hexachlorocyclopentadiene                      | 77474         | 4.00      | 4.00                              |
| Hexachloroethane                               | 67721         | 0.10      | 0.10                              |
| Indeno(1,2,3-cd)pyrene                         | 193395        | 0.0013    | 0.0013                            |
| Methoxychlor                                   | 72435         | 0.02      | 0.02                              |
| Nitrobenzene                                   | 98953         | 600       | 600                               |
| p,p'-DDD (p,p-Dichlorodiphenyldichloroethane)  | 72548         | 0.00012   | 0.00012                           |
| p,p'-DDE (p,p-Dichlorodiphenyldichloroethene)  | 72559         | 0.000018  | 0.000018                          |
| p,p'-DDT (p,p-Dichlorodiphenyltrichloroethane) | 50293         | 0.00003   | 0.00003                           |
| Pentachlorobenzene                             | 608935        | 0.10      | 0.10                              |
| Pentachlorophenol                              | 87865         | 0.04      | 0.04                              |
| Pyrene   | 129000        | 30        | 30                                |
| Toluene  | 108883        | 520       | 520                               |
| Trichloroethene                                | 79016         | 7         | 7                                 |
| Vinyl Chloride                                 | 75014         | 1.6       | 1.6                               |

NNEPA also added human health criteria for Total Endosulfan of 20ug/l and Glyphosate of 266,667 ug/l.. The following equation was used to calculate the criteria for Total endosulfan and Glyphosate with the parameters in Table 6 (below):

For non-carcinogens. WQC =  $\frac{\text{Rfd} * \text{RSC} * 70 \text{ kg}}{\text{FC} * \text{BCF}}$ 

Table 6 Parameters used to calculate human health criteria for Total Endosulfan and Glyphosate.

| Variables                            | Total Endosulfan | Glyphosate |
|--------------------------------------|------------------|------------|
| Reference Dose (RFD)                 | 0.006            | 0.1        |
| Relative Source Contribution (RSC)   | 0.2              | 0.2        |
| Fish Consumption rate (FC) grams/day | 17.5             | 17.5       |
| Bioconcentration Factor (BCF)        | 270              | 0.3        |
| Final criteria (ug/l)                | 17.8             | 266,667    |

EPA finds these criteria to be protective. EPA notes the Glyphosate criterion is equivalent to criteria EPA previously approved in 2008 for fish consumption criteria in neighboring Arizona. Likewise, EPA notes the Total Endosulfan criterion is similar to the Arizona criterion, both values round up from the calculated value.

<u>Domestic Water Source use.</u> For Domestic Water Source drinking water NNEPA revised criteria for 77 parameters. 58 of these criteria were updated and 19 are new (Table 7). NNEPA applied values from the "Water + Organism" EPA 304(a) recommendations. Where an EPA criterion was not available, NNEPA adopted values equivalent to or more protective than neighboring Arizona's EPA-approved criteria.

**Table 7 Navajo Nations revised Domestic Water Supply** 

| Parameter                  | CAS Number | NN DWS |
|----------------------------|------------|--------|
| 1,1,2-Trichloroethane      | 79005      | 0.55   |
| 1,2,4,5-Tetrachlorobenzene | 95943      | 0.03   |
| 1,2,4-Trichlorobenzene     | 120821     | 0.071  |
| 1,3-Dichlorobenzene        | 541731     | 7      |
| 1,3-Dichloropropene        | 542756     | 0.27   |
| 2,4,5-Trichlorophenol      | 95954      | 300    |
| 2,4-Dichlorophenol         | 120832     | 10     |
| 2,4-Dimethyl phenol        | 105679     | 100    |
| 2,4-Dinitrophenol          | 51285      | 10     |
| 2,4-Dinitrotoluene         | 121142     | 0.049  |
| 2,6-Dinitrotoluene         | 606202     | 0.05   |
| 2-Chloronaphthalene        | 91587      | 800    |
| 2-Chlorophenol             | 95578      | 30     |
| 2-methyl-4,6-Dinitrophenol | 534521     | 2      |
| 3-methyl 4-Chlorophenol    | 59507      | 500    |
| Acenaphthene               | 83329      | 70     |
| Acrolein                   | 107028     | 3      |

| Parameter                          | CAS Number | NN DWS          |
|------------------------------------|------------|-----------------|
| Alachlor                           | 15972608   | 2               |
| Aldrin                             | 309002     | 0.00000077      |
| alpha-Endosulfan                   | 959988     | 20              |
| alpha-Hexacholorcyclohexane (HCH)  | 319846     | 0.00036         |
| Anthracene                         | 120127     | 300             |
| Atrazine                           | 1912249    | 3               |
| Barium (Ba)                        | 7440393    | 2000            |
| Benzene                            | 71432      | 0.5-2.1         |
| Benzo(a)anthracene                 | 56553      | 0.0012          |
| Benzo(a)pyrene                     | 50328      | 0.00012         |
| Benzo(b)fluoranthene               | 205992     | 0.0012          |
| Beta particles and photon emitters |            | 4 milirems/year |
| beta-Endosulfan                    | 33213659   | 20              |
| beta-Hexacholorcyclohexane (HCH)   | 319857     | 0.008           |
| Bis(2-chloroisopropyl)ether        | 108601     | 200             |
| Bis(2-ethylhexyl) adipate          | 103231     | 400             |
| Bis(2-ethylhexyl)phthalate         | 117817     | 0.32            |
| Bis(Chloromethyl) ether            | 542881     | 0.00015         |
| Boron                              | 7440428    | 1400            |
| Butyl benzyl phthalate             | 85687      | 0.1             |
| Chlordane                          | 57749      | 0.00031         |
| Cyanide                            | 57125      | 4               |
| Dibenzo(a,h)anthracene             | 53703      | 0.00012         |
| Dibutyl phthalate                  | 84742      | 20              |
| Dieldrin                           | 60571      | 0.0000012       |
| Diethyl phthalate                  | 84662      | 600             |
| Dimethyl phthalate                 | 131113     | 2000            |
| Dinitrophenols                     | 25550587   | 10              |
| Di-n-octyl phthalate               | 117840     | 2800            |
| Dinoseb                            | 88857      | 7               |
| Diquat                             | 85007      | 20              |
| Endosulfan (Total)                 | 115297     | 40              |
| Endosulfan sulfate                 | 1031078    | 20              |
| Endothall                          | 145733     | 100             |
| Endrin                             | 72208      | 0.03            |
| Ethylbenzene                       | 100414     | 68              |
| Fluoranthene                       | 206440     | 20              |
| Fluorene                           | 86737      | 50              |
| gamma-Hexacholorcyclohexane (HCH)  | 58899      | 4.2             |
| Glyphosate                         | 1071836    | 700             |
| Heptachlor                         | 76448      | 0.0000059       |
| Heptachlor epoxide                 | 1024573    | 0.000032        |
| Hexachlorobenzene                  | 118741     | 0.000079        |

| Parameter                                      | CAS Number | NN DWS   |
|--|------------|----------|
| Hexachlorobutadiene                            | 87683      | 0.01     |
| Hexachlorocyclohexane (HCH)-Technical          | 608731     | 0.0066   |
| Hexachlorocyclopentadiene                      | 77474      | 4        |
| Hexachloroethane                               | 67721      | 0.1      |
| Indeno(1,2,3-cd)pyrene                         | 193395     | 0.0012   |
| Isophorone                                     | 78591      | 34       |
| Manganese                                      | 7439965    | 980      |
| Methoxychlor                                   | 72435      | 0.02     |
| Nitrobenzene                                   | 98953      | 10       |
| p,p'-DDD (p,p-Dichlorodiphenyldichloroethane)  | 72548      | 0.00012  |
| p,p'-DDE (p,p-Dichlorodiphenyldichloroethene)  | 72559      | 0.000018 |
| p,p'-DDT (p,p-Dichlorodiphenyltrichloroethane) | 50293      | 0.00003  |
| Pentachlorobenzene                             | 608935     | 0.1      |
| Pentachlorophenol                              | 87865      | 0.030    |
| Pyrene   | 129000     | 20       |
| Toluene  | 108883     | 57       |
| Trichloroethene                                | 79016      | 0.6      |

<sup>\*</sup>noted as total free cyanide in AZ WQS

Primary Human Contact use. NNEPA revised the human health criteria for 22 parameters, 11 of which are for new parameters (Table 8). EPA does not have 304(a) recommended criteria for the parameters in Table 8. EPA notes that with the exception of bis(2-ethylhexyl)phthalate, all of the revised primary contact criteria are equivalent to, or more protective than, EPA approved standards in neighboring Arizona. EPA finds that these new NNEPA are protective of primary human contact use. EPA is approving all of the revised primary contact criteria in Table 8 with the exception of bis(2-ethylhexyl)phthalate. EPA is not approving the bis(2-ethylhexyl)phthalate criteria; see "EPA Disapproval of WQS" below.

Table 8 Navajo Nations revised Primary Human Contact criteria

| Parameter                   | CAS Number | NN Primary Human Contact |
|-----------------------------|------------|--------------------------|
| 2,6-Dinitrotoluene          | 606202     | 2                        |
| 2-methyl-4,6-Dinitrophenol  | 534521     | 3733                     |
| Alachlor                    | 15972608   | 9333                     |
| Antimony                    | 7440360    | 747                      |
| Atrazine                    | 1912249    | 32667                    |
| Benzo(a)anthracene          | 56553      | 0.2                      |
| Benzo(a)pyrene              | 50328      | 0.2                      |
| Benzo(b)fluoranthene        | 205992     | 1.9                      |
| Benzo(k)fluoranthene        | 207089     | 1.9                      |
| Bis(2-chloroisopropyl)ether | 108601     | 37333                    |
| Bis(2-ethylhexyl) adipate   | 103231     | 560000                   |
| Di-n-octyl phthalate        | 117840     | 373333                   |
| Dinoseb                     | 88857      | 933                      |

| Parameter                        | CAS Number | NN Primary Human Contact |
|----------------------------------|------------|--------------------------|
| Diquat                           | 85007      | 2053                     |
| Endosulfan (Total)               | 115297     | 5600                     |
| Endothall                        | 145733     | 18667                    |
| Fluoride                         | 16984488   | 140000                   |
| Glyphosate                       | 1071836    | 93333                    |
| Hexachlorobenzene                | 118741     | 1                        |
| Manganese                        | 7439965    | 18667                    |
| Polychlorinated biphenyls (PCBs) | 1336363    | 19                       |

<u>Secondary Human Contact criteria</u>. NNEPA revised the secondary human contact criteria for 26 parameters, of which 16 are new to NNEPA (Table 9). EPA notes that all, except the criteria for manganese, are the same values as the Arizona WQS that EPA approved as being protective of partial body contact.

EPA finds that the NNEPA criteria are protective of the secondary human contact use and are approved

Table 9 Navajo Nations revised Secondary Human Contact criteria

| Parameter                   | CAS Number | NNEPA Secondary Human Contact |
|-----------------------------|------------|-------------------------------|
| 2,6-Dinitrotoluene          | 606202     | 3733                          |
| 2-methyl-4,6-Dinitrophenol  | 534521     | 3733                          |
| Alachlor                    | 15972608   | 9333                          |
| Antimony (Sb)               | 7440360    | 747                           |
| Atrazine                    | 1912249    | 32667                         |
| Benzene                     | 71432      | 3733                          |
| Benzo(a)anthracene          | 56553      | 0.2                           |
| Benzo(a)pyrene              | 50328      | 0.2                           |
| Benzo(b)fluoranthene        | 205992     | 1.9                           |
| Benzo(k)fluoranthene        | 207089     | 1.9                           |
| Bis(2-chloroisopropyl)ether | 108601     | 37333                         |
| Bis(2-ethylhexyl) adipate   | 103231     | 560000                        |
| Di-n-octyl phthalate        | 117840     | 373333                        |
| Dinoseb                     | 88857      | 933                           |
| Diquat                      | 85007      | 2053                          |
| Endosulfan (Total)          | 115297     | 5600                          |
| Endothall                   | 145733     | 18667                         |
| Fluoride                    | 16984488   | 140000                        |
| Glyphosate                  | 1071836    | 93333                         |
| Manganese                   | 7439965    | 18667                         |

Agricultural Uses' criteria. NNEPA revised fifteen agriculture-related designated use criteria (Table 10) for Agricultural Water Supply (AgWS) and Livestock Watering. In general, the criteria are equivalent to

the EPA Blue Book (EPA 1972). EPA finds that these NNEPA criteria are protective of agricultural uses.

Table 10 Navajo Nations revised agriculture related criteria

| Parameter                     | NN EPA AgWS  | NN EPA LW    |
|-------------------------------|--------------|--------------|
| 1,1,1-Trichloroethane         | 1000         |              |
| Aluminum                      |              | removed      |
| Benzidine                     | 0.01         | 0.01         |
| Boron                         | 2000         | 5000 (total) |
| Chlorine (total residual)     |              | removed      |
| Cobalt                        | 5000 (total) | 1000 (total) |
| Copper                        | 5000 (total) | 500 (total)  |
| Cyanide (as free Cyanide)     |              | 200          |
| Dieldrin                      | 0.03         | 0.03         |
| Endrin                        | 0.004        | 0.004        |
| Gross Alpha particles (pCi/L) |              | removed      |
| Manganese                     | 10000        |              |
| Mercury                       |              | 10           |
| Molybdenum                    | 50 (total)   |              |
| Nickel                        | 2000         |              |
| Nitrate-Nitrite (mg/L)        |              | 100          |
| PCBs                          | 0.001        | 0.001        |
| Toxaphene                     | 0.005        | 0.005        |
| Vanadium                      | 1000 (total) | 100 (total)  |

<sup>\*</sup>Recommended maximum concentration over a 20-year time period for neutral and alkaline fine textured soils.

## § 208 SAMPLE COLLECTION AND ANALYSIS

**A.** NNEPA updated information regarding the applicable Quality Assurance Plan. EPA finds this revision to be editorial and a non-substantive change.

**C.** NNEPA added a section regarding implementation of WQS regarding Method Reporting Limits. EPA finds this new item to be a non-substantive change.

EPA acknowledges these non-substantive changes to previously approved WQS in order to ensure public transparency as to which provisions are applicable for purposes of the CWA in accordance with 40 C.F.R § 131.21(c). EPA's acknowledgement of the non-substantive changes does not constitute an action on the underlying previously approved WQS because they are not new or revised. See: What is a new or revised WQS FAQ (<a href="https://www.epa.gov/sites/production/files/2014-11/documents/cwa303faq.pdf">https://www.epa.gov/sites/production/files/2014-11/documents/cwa303faq.pdf</a>).

## § 209 EXCEPTIONAL WATERS OF NAVAJO NATION

NNEPA has added the following language to identify the process to establish exceptional waters of the Navajo Nation.

- A. The Director may classify a surface water as an Exceptional Water of the Navajo Nation (EWNN) by rule.
- B. The Director may adopt, under NNSWQS Section 212, a site-specific standard to maintain and protect existing water quality in an EWNN.
- C. Any person may nominate a surface water for classification as an EWNN by filing a nomination with the Director. The nomination shall include:
  - 1. A map and a description of the surface water;
  - 2. A written statement in support of the nomination, including specific reference to the applicable criteria for an EWNN classification prescribed in Subsection (D);
  - 3. Supporting evidence demonstrating that the criteria in subsection (D) are met; and
  - 4. Available water quality data relevant to establishing the baseline water quality for the proposed EWNN
- D. The Director may classify a surface water as an EWNN based upon the following criteria:
  - 1. The surface water is a perennial or intermittent water;
  - 2. The surface water is in a free-flowing condition. For the purposes of this subsection, "in a free-flowing condition" means that a surface waters does not have an impoundments, diversion, channelization, rip-rapping or other bank armor, or another hydrological modification within the reach nominated for an EWNN classification;
  - 3. The surface water has good water quality. For purposes of this subsection, "good water quality" means that the surface water has water quality that meets of is better than applicable surface water quality standards. A surface water that is listed as impaired is ineligible for EWNN classification; and
  - 4. The surface water meets one or both of the following conditions:
    - a. The surface water is of exceptional cultural, ecological, and/or recreational significance because of its unique attributes, such as the geology, flora and fauna, water quality, aesthetic value, cultural resource value, and/or the wilderness characteristic of the surface water;
    - b. An endangered or threatened species is associated with the surface water and the existing water quality is essential to the species' maintenance and propagation and/or the surface water provides critical habitat for the threatened or endangered species. An endangered or threatened species is identified by the Navajo Nation Fish and Wildlife Service.
- E. The Director shall hold at least one public meeting in the local area of a surface water that is nominated for classification as an EWNN to solicit public comment on the nomination.
- F. The Director shall consider the following factors when deciding whether to classify a surface water as an EWNN:
  - 1. Whether there is the ability to manage the surface water and its watershed to maintain and protect existing water quality:
  - 2. The social and economic impact of Tier 3 antidegradation protection;
  - 3. The public comments in support of, or in opposition to, an EWNN classification,

- 4. The timing of the nomination relative to the triennial review of surface water quality standards;
- 5. The consistency of an EWNN classification with applicable water quality management plans; and
- 6. Whether the nominated surface water is located within a Navajo Nation park, National Monument, wilderness area, conservation area, area of critical environmental concern, or within another area with special use designation.

EPA finds that the process outlined above is part of NNEPA's antidegradation implementation methods. Per C.F.R. § 131.12, EPA does not approve antidegradation implementation methods such as those described in § 202. Rather pursuant to 40 C.F.R. § 131.12(b), EPA must ensure that the state or tribes antidegradation policy is consistent with the requirements outlined in 40 C.F.R. § 131.12. EPA finds that these changes are consistent with 40 C.F.R. § 131.12 (a)(3).

#### § 210 VARIANCE

NNEPA provided non-substantive edits replacing the term "Unique Water" in Section I with "Exceptional Water of the Navajo Nation." EPA acknowledges these non-substantive changes to previously approved WQS in order to ensure public transparency as to which provisions are applicable for purposes of the CWA in accordance with 40 C.F.R § 131.21(c). EPA's acknowledgement of the non-substantive changes does not constitute an action on the underlying previously approved WQS because they are not new or revised. See: What is a new or revised WQS FAQ (https://www.epa.gov/sites/production/files/2014-11/documents/cwa303faq.pdf).

### § 211 WASTEWATER MIXING ZONES

NNEPA has made edits to the mixing zone policy replacing the term "aquatic habitat" with "aquatic and wildlife" to describe the numeric standards for which mixing zones are allowable. EPA acknowledges these non-substantive changes to previously approved WQS in order to ensure public transparency as to which provisions are applicable for purposes of the CWA in accordance with 40 C.F.R § 131.21(c). EPA's acknowledgement of the non-substantive changes does not constitute an action on the underlying previously approved WQS because they are not new or revised. See: What is a new or revised WQS FAQ (https://www.epa.gov/sites/production/files/2014-11/documents/cwa303faq.pdf)

### § 212 SITE-SPECIFIC STANDARDS

NNEPA added this section which describes the five procedures by which NNEPA will develop site-specific standards.

- 1. The Recalculation Procedure,
- 2. Water-Effects Ratio Procedure,
- 3. Resident Species Procedure,
- 4. Streamlined Water Effects Ratio Procedure for Discharges of Copper, and
- 5. Natural Background Determination Procedures

The recalculation procedure, the resident species procedure and the water-effects ratio are identical to the procedures outlined the EPA Water Quality Standards Handbook. Guidance for the water effects ratio is provided in in "Streamlined Water-Effect Ratio Procedure for Discharges of Copper," U.S. Environmental Protection Agency, Office of Water, (EPA-822-R-01-005) (March 2001).

The natural background determination procedures outlined by NNEPA are consistent with EPA policy first established by the Davies memo (Nov 5, 1997) which indicates that "States and Tribes may establish site specific numeric aquatic life water quality criteria by setting the criteria value equal to *natural* background." The Davies memo also establishes the following criteria for setting site specific standards based on natural background:

"In setting criteria equal to natural background, the State or Tribe should, at a minimum, include in their water quality standards:

- (1) a definition of natural background consistent with the above;
- (2) a provision that site-specific criteria may be set equal to natural background;
- (3) a procedure for determining natural background, or alternatively, a reference in their WQS to another document describing the binding procedure that will be used."

EPA finds that NNEPA's procedures for establishing site-specific criteria are consistent with EPA's policies and guidance. EPA notes that the 304(a) recommendation for copper is the biotic ligand model (BLM) and has provided guidance the copper BLM will be used to establish the protectiveness of any proposed site-criteria copper criteria established using the water-effects ratio.

# § 213 NATURAL BACKGROUND

NNEPA added the following section:

"Where the concentration of a pollutant exceeds a water quality standard and the exceedance is not anthropogenic but is due to natural background conditions, the exceedance shall not be considered a violation of the water quality standard."

EPA notes that this section follows the site-specific standards section, that section applies natural background conditions only to aquatic uses. In this context EPA finds NNEPA's definition of Natural Background is consistent with the 1997 Davies memo and EPA guidance.

#### **EPA Disapproval of WQS**

## § 207. NUMERIC SURFACE WATER QUALITY STANDARDS

### Table 207.1. Numeric Surface Water Quality Standards

bis(2-ethylhexyl)phthalate: NNEPA proposed amending the primary contact criteria for bis(2-ethylhexyl)phthalate from 330  $\mu$ g/L to 1200  $\mu$ g/L. NNEPA did not provide a rationale to demonstrate the protectiveness of this change. EPA notes that the proposed criteria change is similar to criteria EPA

disapproved for the neighboring Arizona with which Navajo Nation shares waters and that this value is 12 times higher than the approved Arizona WQS criteria.

EPA finds that the proposed changes to bis(2-ethylhexyl)phthalate are not protective of NNEPA's designated use. EPA finds the amendment to the primary human contact standard is not consistent with 40 C.F.R. Part 131 and disapproves these provisions pursuant to Section 303(c) of the Act. Pursuant to 40 C.F.R. § 131.21(e), Navajo Nation's previous criterion of 330  $\mu$ g/L remains the applicable water quality standard for CWA purposes.

#### Tables 207.1, 207.2, 207.3, 207.4, 207.5

<u>Cadmium</u>: NNEPA began revising its 2009 acute and chronic cadmium aquatic and wildlife criteria in 2015 following the 2001 EPA 304 (a) criteria recommendation. Subsequently, in 2016 EPA published an updated cadmium 304 (a) recommendation for acute and chronic aquatic life uses.

Cadmium's impacts to aquatic life are moderated by the hardness of the water column. NNEPA rightly addresses this and other hardness mediated parameters by using an equation, translated into tables, to identify the criteria values. The progression of the criteria and their translation at example hardnesses, is reflected in the comparisons made below in Tables 11 and 12.

NNEPA's 2018 adopted "2015" water quality standard updates proposed amending the intercept of the 2001 EPA recommended equation from 3.294 to -2.561, which increases the acute cadmium criteria 3.1 times, across the range of hardness values. This approach is not in accordance with the more recent EPA updated cadmium criteria from 2016. The proposed NNEPA acute criteria is 6.6 to 9.0 times greater than the 2016 EPA 304(a) recommended acute criteria; see Table 11 below.

In 2009, EPA approved the NNEPA's acute aquatic and wildlife cadmium standard, as it was equal to EPA's then current 2001 304(a) criteria recommendation. The NNEPA 2009 approved acute cadmium aquatic and wildlife criterion:

```
[e (1.0166 [ln (hardness)] - 3.924)][1.136672-[ln (hardness)](0.041838)]
```

In the 2015 WQS provisions transmitted to EPA, NNEPA created a different cadmium aquatic and wildlife warm-water standard while transferring the above equation to a cold-water criteria. NNEPA proposed 2015 cadmium aquatic and wildlife warm-water acute criteria:

Warm water: [e (1.0166 [ln (hardness)] - 2.561][1.136672-[ln (hardness)](0.041838)] Cold water: [e (1.0166 [ln (hardness)] - 3.924)][1.136672-[ln (hardness)](0.041838)]

Table 11 Evaluation of NNEPA acute criteria standard relative to EPA criteria.

|          |            | EPA               | Proposed |       | Multiplier  | Multiplier       |
|----------|------------|-------------------|----------|-------|-------------|------------------|
|          | <b>EPA</b> | Approved          | NNEPA    | EPA   | relative to | relative to      |
|          | Acute      | <b>NNEPA</b>      | Acute    | Acute | EPA Acute   | <b>EPA Acute</b> |
| Hardness | 2001       | <b>Acute 2009</b> | 2015     | 2016  | 2001        | 2016             |
| 50       | 1.0        | 2.0               | 6.2      | 0.94  | 3.1         | 6.6              |
| 100      | 2.0        | 4.3               | 13.1     | 1.79  | 3.1         | 7.3              |
| 200      | 3.9        | 9.0               | 27.8     | 3.43  | 3.1         | 8.1              |

| 300 | 5.9 | 14.0 | 43.2 | 5.00 | 3.1 | 8.6 |
|-----|-----|------|------|------|-----|-----|
| 400 | 7.7 | 19.1 | 58.9 | 6.54 | 3.1 | 9.0 |

As detailed above, the revised cadmium values are 3.1 times higher than the 2001 EPA 304(a) recommended criteria the acute criteria and 6.6 to 9.0 times higher for the 2016 304(a) recommended criteria

In 2009, EPA approved the NNEPA chronic cadmium criteria because it was more protective than the EPA 304(a) recommendation. The NNEPA 2009 approved chronic cadmium aquatic and wildlife criterion:

In the 2015 WQS provisions transmitted to EPA, NNEPA has proposed a new warm water chronic cadmium aquatic and wildlife criteria while transferring the above equation to a cold water criteria. NNEPA proposed 2015 warm water chronic cadmium aquatic and wildlife criteria:

Warm water: [e (0.7409 [ln (hardness)] - 3.894) ][1.101672-[ln (hardness)](0.041838)] Cold Water: [e (0.7409 [ln (hardness)] - 4.719) ][1.101672-[ln (hardness)](0.041838)]

The change in the intercept of the chronic criteria creates values that are 1.2 times greater than the 2001 EPA 304(a) recommended criteria and 3.6 times greater the EPA 304(a) recommended criteria 2016 across the range of hardness values. Table 12 below describes the impact of the changes across hardness values.

Table 12 Evaluation of NNEPA chronic cadmium criteria standard relative to EPA criteria.

| Hardness | EPA<br>Chronic<br>2001 | NNEPA<br>Chronic<br>2009 | NNEPA<br>Chronic<br>2015 | EPA<br>Chronic<br>2016 | Multiplier<br>relative to<br>EPA<br>Chronic<br>2001 | Multiplier relative to EPA Chronic 2016 |
|----------|------------------------|--------------------------|--------------------------|------------------------|---|---|
| 50       | 1.3                    | 0.2                      | 1.6                      | 0.4                    | 1.2   | 3.7                                     |
| 100      | 2.2                    | 0.3                      | 2.6                      | 0.7                    | 1.2   | 3.6                                     |
| 200      | 3.7                    | 0.5                      | 4.4                      | 1.2                    | 1.2   | 3.6                                     |
| 300      | 5.0                    | 0.7                      | 5.9                      | 1.6                    | 1.2   | 3.6                                     |
| 400      | 6.2                    | 0.8                      | 7.3                      | 2.0                    | 1.2   | 3.6                                     |

The EPA finds that the proposed changes to cadmium are not consistent with EPA's 304(a) criteria recommendations and are not protective of NNEPA's designated uses. EPA finds the amendments to the acute and chronic aquatic and wildlife warm water standards are not consistent with 40 C.F.R. Part 131 and disapproves these provisions pursuant to Section 303(c) of the Act. Pursuant to 40 C.F.R. § 131.21(e), Navajo Nation's 2009 previous criteria remain the applicable water quality standard for CWA purposes.

## **EPA Request for Additional Information**

<u>Section E. Suspended Solids</u>: NNEPA amended the previously EPA-approved suspended solids criteria with the following:

"The suspended solids standards in this section only apply to lotic (flowing) surface waters."

The proposed change would remove the criteria from a variety of lakes, reservoirs, and other similar waterbodies. NNEPA's intent for this proposed change was to address challenges collecting valid samples from very shallow waters (Email from Eric Rich, NNEPA on February 25, 2020). These technical difficulties are not related to whether the criteria are necessary to protect the use.

EPA finds the amendments to the aquatic and wildlife warm and cold water standards for non-lotic surface waters are not consistent with 40 C.F.R. Part 131. Due to these concerns, EPA is offering NNEPA the opportunity to submit additional information that provides a scientific basis for this removal or establishes how, in the absence of the criteria, NN WQS can nevertheless protect the designated uses from impacts from suspended solids. EPA would appreciate for this information to be shared in 30 days or less by NNEPA.

EPA is not acting on this change at this time, pursuant to Section 303(c) of the Act. Pursuant to 40 C.F.R. § 131.21(e), Navajo Nation's previous criteria, noted below, remain the applicable water quality standard for CWA purposes.

"The following water quality standards for suspended solids concentration, are expressed as a median value determined from a minimum of four samples collected at least 7 days apart. A suspended solids sample collected during or within 48 hours of a local precipitation event shall not be used to determine the median value.

Aquatic and Wildlife, warm water: 80 mg/L Aquatic and Wildlife, cold water: 25 mg/L"

#### **Endangered Species Act**

EPA's action on water quality standards is subject to Section 7 of the Endangered Species Act. EPA prepared a Biological Evaluation as a part of its administrative record for this action. US Fish and Wildlife Service concurred with EPA's finding of "may affect, not likely to adversely affect" protected species under its jurisdiction by letter dated April 20, 2020.

### **Consultation with Indian Tribes**

EPA upholds its trust responsibility to federally recognized tribal governments consistent with the "2011 EPA Policy on Consultation and Coordination with Indian Tribes"

(https://www.epa.gov/tribal/epa-policy-consultation-and-coordination-indian-tribes). Fundamental to this policy is to have meaningful communication and coordination with appropriate tribal leadership on a government-to-government basis prior to EPA taking actions or making decisions that may affect tribal interests.

On April 4, 2019 EPA provided a letter offering consultation to area tribes whose interests may be affected by this action. No tribes requested to pursue consultation.

#### Triennial Review Requirements & CWA §304(a) Recommendation

40 C.F.R. § 131.20(a) stipulates that:

The State shall from time to time, but at least once every 3 years, hold public hearings for the purpose of reviewing applicable water quality standards... if a State does not adopt new or revised criteria for parameters for which EPA has published new or updated CWA section 304(a) criteria recommendations, then the State shall provide an explanation when it submits the results of its triennial review...

Navajo Nation provided evidence of public hearings to EPA on February 11, 2019. Navajo Nation provided a review of the applicable WQS November 13, 2019. EPA is providing the following comments for Navajo Nation consideration:

#### EPA Published Recommendations:

#### Fish Consumption Use

EPA notes that NNEPA did not develop a fish consumption criterion for manganese. EPA recommends that NNEPA either adopt a fish consumption criterion or provide a written rationale in their next public Triennial Review documents and transmission to EPA. NNEPA's rationale should identify whether a manganese criterion is not needed, should be different, or is pending.

## Domestic Water Supply

EPA notes that the domestic water supply criterion for manganese is higher than the recommended value. EPA recommends consider revising the in their next triennial review.

### Aquatic & Wildlife

EPA notes that NNEPA did not develop aquatic and wildlife acute and chronic criteria for manganese. EPA recommends that NNEPA either adopt aquatic and wildlife criteria or provide a written rationale in their next public Triennial Review documents and transmission to EPA. NNEPA's rationale should identify whether manganese criteria are not needed, should be different, or are pending.

EPA recommends NNEPA consider adding the biotic ligand model (BLM) to the aquatic and wildlife copper criteria and to the sections describing site specific standard recalculation procedures in their next triennial review.

#### Future Possible Technical Support:

# Primary Human Contact & Secondary Human Contact Uses

The manganese criteria are higher than the EPA blue book recommendation. EPA is approving the manganese criteria as it is protective of the use, but EPA recommends that NNEPA consider revising in their next triennial review.

### Agriculture-Related Uses

EPA recommends that NNEPA consider agriculture-related designated uses criteria for aluminum and gross alpha particles in their next triennial review.

#### Conclusion

Based on EPA's review, the new and revised WQS are partially consistent with the requirements of the CWA and 40 C.F.R. Part 131. Therefore, the revisions are partially approved and partially disapproved by EPA pursuant to Section 303(c) of the Act.

### References

EPA Blue Book. NAS/NAE. 1973. Water Quality Criteria 1972 (the "Blue Book"), a Report of the Committee on Water Quality Criteria. National Academy of Science and National Academy of Engineering, Washington, DC. NTIS-PB 236199. USGPO #5501-00520.

Arizona WQS. Chapter 11. Department of Environmental Quality - Water Quality Standards <a href="https://www.epa.gov/sites/production/files/2014-12/documents/az-chapter11.pdf">https://www.epa.gov/sites/production/files/2014-12/documents/az-chapter11.pdf</a> last accessed: April 20, 2020.

EPA 304(a) recommendations. National Recommended Water Quality Criteria <a href="https://www.epa.gov/wqc/national-recommended-water-quality-criteria">https://www.epa.gov/wqc/national-recommended-water-quality-criteria</a> last accessed: April 20, 2020.

1984 EPA recommendations. Ambient Water Quality Criteria for Mercury -1984. EPA 440/5-84-026, January 1985.

1994 EPA recommendations. 1995 Updates: Water Quality Criteria Documents for the Protection of Aquatic Life in Ambient Water.

Davies memo. 1997. Establishing Site Specific Aquatic Life Criteria Equal to Natural Background. <a href="https://www.epa.gov/sites/production/files/2014-08/documents/naturalbackground-memo.pdf">https://www.epa.gov/sites/production/files/2014-08/documents/naturalbackground-memo.pdf</a> last accessed: May 26, 2020.